

Name:

Form:

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How to use your Knowledge Organiser for Home Learning

- Knowledge Banks contain core knowledge that you must know
- It will help you retrieve what you learn in lessons so that you remember it in the long term
- You will use your Knowledge Bank to aid your home learning

For homework:

- You will need to create a home learning timetable so you can organise which subject you do on which days
- You will be asked to use a specific section of your Knowledge Bank to aid home learning
- Your home learning will involve retrieval (prior learning) and flipped learning (research-based task for topics not yet learnt)
- The length of home learning will be different depending on your subject, this information is in a different document
- You must write the subject and date in your homework book if using
- You need to underline the subject and title as per lessons
- There will be rewards for excellent work and sanctions for work not complete
- your home learning will be set every Monday on ClassCharts
- Your homework will be set **every Monday** on Class Charts
- Completing your home learning is **YOUR** responsibility

ENGLISH

A Christmas Carol – Charles Dickens - 1843

Plot Summary:

Stave 1 – We are introduce to the cold-hearted Scrooge who is uncharitable and cruel. He is in his counting house when Fred and charity workers appear – he treats them appallingly. At home, the ghost of Jacob Marley appears to him to warn him he must change.

Stave 2 – The Ghost of Christmas Past appears. We see that Scrooge was neglected as a child at boarding school. We see his kind-hearted boss, Fezziwig. We also see how his relationship with his fiancée, Belle ended.

Stave 3 – The Ghost of Christmas Present appears and shows Scrooge how other people celebrate Christmas. We see the poverty-stricken Cratchit family and how happy they are.

Stave 4 – We meet the Ghost of Christmas Yet to Come and see how Scrooge fears it. The ghost shows him reactions to his death. We see how the Cratchit's mourn the death of Tiny Tim. Scrooge is shown his own grave and begs for forgiveness.

Stave 5 - Scrooge wakes in his bed on Christmas Day. He is elated and sends a boy to buy a prize turkey for the Cratchit family. He walks about London, donates a large amount to charity, goes to church and visits his nephew, Fred. He is changed – redemption.



Christmas Spirit



Social responsibility



Family

Themes



Poverty and Charity



Supernatural

Characters







Scrooge



Ghost of Christmas Past



Bob

Cratchit



Ghost of Christmas Yet to Come

You can access good marks with a really solid knowledge of the plot, the characters and how the characters are presented

Ghost of

Christmas Present









Marley

The Knowledge: A Christmas Carol, by Charles Dickens

Scrooge

÷

- Scrooge begins the novel as 'hard and sharp as flint, 'as solitary as an Oyster, and ends 'as merry as a school-boy'
- 2 Scrooge's reply to Merry Christmas is 'Bah! Humbug!' and when told about the poor, Scrooge asks 'are there no prisons?'
- ω Scrooge is visited by the ghost of Jacob Marley covered in chains. Marley warns Scrooge that he also has a 'ponderous chain'
- 4. Marley warns Scrooge that 'You will be haunted'...'by Three Spirits.'
- ы The first ghost, the Ghost of Christmas past, shows Scrooge as 'a lonely boy...reading near a feeble fire
- <u></u>б Scrooge sees his old boss Fezziwig, who spoke in a 'comfortable, oily, rich, fat, jovial voice' & Belle, displaced by a 'golden' idol
- 7 Scrooge's 'offences carry their own punishment'. The Ghost of Christmas Present shows Scrooge Bob Cratchit, who calls Scrooge the 'founder of the feast' and Fred, who says that
- œ The Ghost of Christmas Future shows people arguing about 'a wicked old screw' and the possessions stolen from his death-bed
- <u>و</u> After seeing his own grave Scrooge repents, saying he will 'honour Christmas in my heart, and try to keep it all the year.
- 10 'Scrooge was better than his word. He did it all, and infinitely more; and to Tiny Tim, who did not die, he was a second father.'

R	Isolated	Miserly
П	Ruthless	Cold

The Cratchits

- Scrooge treats his clerk Bob Cratchit poorly; the office is a 'dismal little cell' with a fire that 'looked like one coal'
- 2 When Bob asks Scrooge for the day off for Christmas, Scrooge says it is 'picking a man's pocket every twenty-fifth of December!'
- ω Mrs Cratchit, Cratchit's wife, is 'dressed out but poorly in a twice-turned gown, but brave in ribbons'
- 4 Tiny Tim, the youngest Cratchit, suffers with ill health but is still 'as good as gold' and says 'God bless us everyone!'
- ы None of the Cratchits remark on the small size of their Christmas dinner or Pudding, 'It would have been flat heresy to do so.'
- <u>б</u> The Cratchits make a proud display of what little they have; 'Two tumblers, and a custard-cup without a handle'
- .7 Mrs. Cratchit does not share in Bob's praise of Scrooge, calling him a 'stingy, hard, unfeeling man'
- 00 The Ghost of Christmas Present warns of Tiny Tim that 'If these shadows remain unaltered by the Future, the child will di
- Q The Ghost of Christmas Future shows the consequences of this, as 'the noisy little Cratchits were as still as statues'
- 10 Scrooge ends up saving the Cratchits as he tells Bob 'I'll raise your salary, and endeavour to assist your struggling family

Loyal	Working class
Loving	Dignified
Optimistic	Thoughtful
Dedicated	Humble
United	Determined

The Ghosts

- Ŀ Marley's ghost explains 'I wear the chain I forged in life...The chain was made up of cash boxes...ledgers...heavy purses'
- 2 Scrooge looks out of his window & sees 'the air was filled with phantoms'
- ω The Ghost of Christmas Past is 'like a child: yet not so like a child as like an old man' and from 'crown of its head there sprung a bright clear jet of light'
- 4 The Ghost of Christmas Past asks Scrooge to 'Bear but a touch of my hand
- ы The Ghost of Christmas Present is 'a jolly Giant, glorious to see:, who bore a glowing torch'
- б. The Ghost of Christmas Present explains the 'yellow, meagre, ragged, scowling, wolfish' figures of Ignorance and Want.
- .7 The Ghost of Christmas Future is a 'Phantom' who 'slowly, gravely, silently approached'
- œ The Ghost will is not troubled by Scrooge's outbursts; 'The Spirit was immovable as ever.'

Superstition	Supernatural	
Moral	Prophetic	
Unsettling	Apparition	
Symbolic	Powerful	
Revelatory	Truthful	



Power and Conflict Poems: Kamikaze, My Last Duchess, Remains, Storm on the Island, Tissue

Poem	Context & Subject Matter	Key Quotations
Kamikaze	During the Second World War, the term 'kamikaze' was used for Japanese fighter pilots who were sent on suicide missions. They were expected to crash their warplanes into enemy warships. The word 'kamikaze' literally translates as 'divine wind'. Pilots were revered for their heroism and remembered as martyrs. This poem perhaps prompts us to think about the consequences of suicide missions for families in the modern world as well as in past conflicts.	'a shaven head full of powerful incantations' 'little fishing boats strung out like bunting on a green-blue translucent sea' 'dark shoals of fishes flashing silver' 'arcing in swathes like a huge flag waved first one way then the other in a figure of eight,' 'they treated him as though he no longer existed' 'only we children still chattered and laughed till gradually we too learned to be silent'
My Last Duchess	Browning was heavily influenced as a youngster by his father's extensive collection of books and art. This poem reflects Browning's love of history and European culture as the story is based on real historical figures. The narrator is Duke Alfonso II who ruled in Ferrara between 1559 and 1597. The Duchess of whom he speaks was his first wife, Lucrezia de' Medici, who died aged 17 in suspicious circumstances and might have been poisoned.	'Looking as if she were alive' 'The depth and passion of its earnest glance' 'spot of joy' 'A heart—how shall I say?— too soon made glad' 'My gift of a nine-hundred-years-old name' 'stooping'/'stoop' 'I gave commands; Then all smiles stopped together' 'Notice Neptune, though, Taming a sea-horse'
Remains	Armitage made a film for Channel 4 in 2007 called <i>The Not Dead</i> and wrote a collection of poems of the same name. In preparation for this work, he interviewed veteran soldiers of different wars. The reference to 'desert sand' in this poem suggests that it is written about the Gulf War. The poem presents a dark and disturbing image of a soldier suffering post-traumatic stress disorder after conflict.	'probably armed, possibly not' 'I see every round as it rips through his life' 'sort of inside out, pain itself, the image of agony' 'tosses his guts' 'End of story, except not really.' 'blood-shadow stays on the street' 'but near to the knuckle, here and now, his bloody life in my bloody hands'
Storm on the Island	Heaney was born in Northern Ireland to a farming family- much of his poetry is centred on the countryside and farm life that he knew as a child. In the late 60s, right up until the 90s, there was conflict in Northern Ireland between the Unionists (a group who wanted to remain in UK) and the Nationalists (a group who wanted to keep Ireland separate). This poem considers the power of nature.	'The wizened earth had never troubled us' 'build our houses squat, Sink walls in rock and roof them' 'Exploding comfortably' 'salvo'/'strafe'/'bombarded' 'The very windows, spits like a tame cat Turned savage' 'Strange, it is a huge nothing that we fear'
Tissue	Dharker was born in Pakistan and grew up in Scotland. She has written numerous poems that deal with themes of identity, the role of women in society and the search for meaning. She draws on her multi-cultural experience in her work. The poet addresses some of the larger issues in society; greed, pride etc. and how we have built our world around them, at odds with our own existence.	'Paper that lets the light shine through, this is what could alter things' 'If buildings were paper, I might feel their drift, see how easily they fall away on a sigh' 'The sun shines through their borderlines' 'what was paid by credit card might fly our lives like paper kites' 'let the daylight break through capitals and monoliths, through the shapes that pride can make' 'of paper smoothed and stroked and thinned to be transparent, turned into your skin'

Key themes and Ideas: conflict, war, identity, culture, power, duty, patriotism

Comparative Words & Phrases: similarly, likewise, also : On the other hand, however

Maths Year 10 **Spring - Foundation**

Right angled triangles



the side opposite the angle Ø is called the opposite. The side next to the angle \emptyset is called the adjacent.



The **sine** of an angle \emptyset is the ratio of the opposite side to the hypotenuse. The sine of angle is written as $\sin \phi$ The **cosine** of an angle \emptyset is the ratio of the adjacent side to the hypotenuse. The cosine of angle is written as $\cos \phi$ The **tangent** of an angle \emptyset is the ratio of the opposite side to the adjacent side. The tangent of angle is written as tan Ø

You can use sin^{-1} , cos^{-1} , tan^{-1} on your calculator to find an angle when you know its sin, cos or tan

The angle of elevation is the angle measured upwards from the horizontal. The angle of depression is the angle measured downwards from the horizontal.

The sine, cosine		30°	45°	60°	90°
and tangent of some angles may	sin	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
be written exactly	cos	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
	tan	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	

Probability

The **probability** of an event happening is a number between 0 and 1. If an event is **certain**, the **probability** is 1 (P = 1). If an event is **impossible**, **probability** is 0, (P = 0) Events are **mutually exclusive** when they cannot happen at the same time. Events are exhaustive if they include all possible outcomes. The probabilities of an exhaustive set of mutually exclusive events sum to 1

Equally likely outcomes have the same probability of happening. The probability that an equally likely event will happen is P = -number of successful outcomestotal number of possible outcomes If the probability of an event happening is P, the probability of it not happening is 1 - P

A sample space diagram shows all the possible outcomes for one or more events. You can use it to find a theoretical probability.

Estimated probability is also called experimental **probability**. You can estimate the probability of an event from the results of an experiment or survey:

A larger number of trials gives a more accurate estimate of probability.

```
Predicted number of outcomes = probability \times
               number of trials.
```

Two events are independent when the results of one do not affect the results of the other. When the outcome of one event changes the possible outcomes of the next event, the two events are not independent.

A set is a list of thinks that share certain characteristics

The elements of two (or more0 sets can be shown together in a Venn diagram. Curly brackets {} show a set of values. $A \cap B$ Means A intersection B. This is all the elements

that are in A and in B

AUB Means A union B. This is all the elements that are in A or B. A' means the elements not in A

Multiplicative reasoning

The original amount is always 100%. If the amount is increased the new amount will be more than 100%. If the amount is decreased the new amount will be less than 100%.

You can calculate a percentage change using the formula. percentage change = $\frac{actual change}{original amount} \times 100$

Density is a compound measure. It is the mass of substance contained in a certain volume. It is usually measured in grams per cubic mass density = centimetre (g/cm³)

Pressure is a compound measure. It is the force applied over an area. It is usually measured in force pressure = area newtons (N) per square metre (N/m^2)

Banks and building societies pay compound interest. At the end of the first tear, interest is paid on the money in the account. The interest is added to the amount in the account. At the end of the second year, interest is paid on the original amount in the account and on the interest

earned in the first year, and so on....

$y \propto x$ means 'y'	is proportional t	o x. When $y \propto x$ then
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y = kx, where k is the constant of proportionality

 $X \propto \frac{1}{v}$ means X and Y are in inverse proportion. This

means XY = k (constant)

You can make the numbers in a ratio as small as possible by simplifying. You simplify a ratio

by dividing the numbers in the ratio by the highest common factor (HCF)



Write the proportion as a fraction.

You can compare proportions using percentages

 $\frac{9}{10} = \frac{1}{100} = 10\%$

Convert the fraction to a percentage.

Maths Year 10

Spring - Higher

Similarity and Congruence

Congruent triangles have exactly the same size and shape. Their angles are the same and corresponding sides are the same length Two triangles are congruent when one of these conditions of congruence is true: SSS: all three sides are equal SAS: Two sides and the included angle are equal AAS: Two angles and a corresponding side are equal

RHS: Right angle, hypotenuse and one other side are equal

Shapes are **similar** when one shape is an **enlargement** of the other. **Corresponding angles** are equal and **corresponding sides** are all in the same **ratio**

When a shape is **enlarged** by **linear scale factor** k, the area of the shape is enlarged by scale factor k^2 When a shape is **enlarged** by **linear scale factor** k, the volume is enlarged by scale factor k^3

More trigonometry

in a right-angled triangle the **hypotenue** is the longest side and is opposite the right angle

in a right-angled triangle the side opposite the angle \emptyset is called the **opposite.** The side next to the angle \emptyset is called the **adjacent**.

hypotenuse adjacent adjacent Mactory

The **sine** of an angle \emptyset is the ratio of the opposite side to the hypotenuse. The sine of angle is written as sin \emptyset The **cosine** of an angle \emptyset is the ratio of the adjacent side to the hypotenuse. The cosine of angle is written as cos \emptyset The **tangent** of an angle \emptyset is the ratio of the opposite side to the adjacent side. The tangent of angle is written as tan \emptyset

You can use sin^{-1} , cos^{-1} , tan^{-1} on your calculator to find an angle when you know its sin, cos or tan

The **angle of elevation** is the angle measured upwards from the horizontal. The **angle of depression** is the angle measured downwards from the horizontal.

The sine, cosine		30°	45°	60°	90°]
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be written exactly	cos	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0	
chuckly	tan	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$		
The sine rule can b	e used	in any	triang	le to ca	alculate	e a
	miss	ing side	9:			
	ι = _	<u>b</u>	<u>с</u>			
sir	na s	in <i>b</i>	sin c			
The cosine rule can b	be used	d in any	/ triang	gle to c	alculat	e an
unknown sic	le: a ² =	$= b^{2} +$	$C^2 - 2$	2 <i>bc</i> co	sA	
The sine graph repeating 360 degrees in l directions	ats eve ooth	ry <u>9</u> 0 -1	90°	180	270° 3	60 [°] x
The tangent grap every 180 degree direction	nh repe es in bo is	eats oth		0° 180°	270° 26	0°.∓ -≯
The area if this t	riangle	e is $\frac{1}{2}a$	b sin	C c	b	B
A place is a flat su the diagram. perpendicular to WXYZ. Triangle A plane perpendicu plane WXY Ø is the angle be	urface. BC is the pla BC is in lar to YZ tween	. In ane n a the i the lii	w 🤇	and th	ne plai	z

The graph of y = -f(-x) is a reflection of the graph of y = f(x) in the α -axis and then the y-axis,

or vice versa. These two reflections are equivalent to a rotation of 180° about origin

Further Statistics

A **population** is the set of items that you are interested in. A **census** is a **survey** of the whole **population**. A **sample** is a smaller number of items from the **population**. A **sample** of at least 10% is considered good. In order to reduce **bias**, the **sample** must represent the whole **population**

A **population** may divide into groups such as age range or gender. These groups are called **strata (stratum**). In a **stratified sample**, the number of people taken from each group is **proportional** to the group size.

A cumulative frequency table shows how many data values are less than or equal to the upper class boundary of each data class. A cumulative frequency diagram has data values on the x-axis and cumulative frequency on the y-axis

The **median** and **quartiles** can be estimated from the **cumulative frequency diagram**. For a set of n data values: the estimate from the **median** is the $\frac{n}{2}$ value. The estimate for the **lower quartile (LQ)** is the $\frac{n}{4}$ value

The estimate for the **upper quartile (UP)** is the $\frac{n3}{4}$ value

The interquartile range (IQR) is UQ - LQ

A **box plot** (sometimes called a box – and – whisker diagram, displays a data set to show the **median** and **quartiles**. **Comparative box plots** are **box plots** for two different sets of data drawn on the same scale. The interquartile range measures the spread of the middle 50% of the data. To describe a data set (or population) give a measure of average and a measure of spread. To compare data sets, compare a measure of average and a measure of of spread.

The median and interquartile range are not affected by extreme values of **outliers**. When there are extreme values, the median and interquartile range should be used rather than the mean and range.

Maths Homework

All maths homework will be set on <u>Sparx</u>. Students can login by pressing "login with google" when they are on their school logins.

The homework will contain the following components:

- **consolidation** of the learning completed in the week;
- 'flipped learning', where student will investigate work to be completed in class later;
- **retrieval** of previous learning, to practise bringing previously learned skill back into working memory;
- and **revision** for in-class tests.

We will use Sparx for revision for termly tests and support at home (using the curriculum maps on the maths section of the website).

Homework is every week. We offer homework help once a week at lunch on a Tuesday. Students can, of course, talk to their teachers any time they like to ensure they complete homework to 100%.

If a student completes all their homework in a year, they will have done the equivalent of 10 weeks of extra maths lessons every year.

Year 10 - Science Knowledge Bank - Spring Term (Chemistry)

Iron stand impure water HEAT Solvent front Base line Solvent level <u>**Distillation**</u> - Used to separate liquids that have different boiling points.

<u>Filtration - used to separate particles of</u> insoluble solids from a solvent (liquid). The particles get stuck in the filter paper.

<u>Crystalisation – Used to produce solid</u> <u>crystals from a solution. When the solution</u> is warmed, the solvent evaporates leaving <u>behind a more concentrated solution</u>

<u>Chromatography</u> – A separation technique used to separate mixtures of soluble substances.

Relies on two phases

Mobile phase – solvent in the liquid phase

Stationary phase – the chromatography paper which is

absorbent

<u> Chromatography – Rf Values</u>

Rf = <u>Distance Travelled by Substance</u> Distance Travelled by Solvent Remember there is no units for Rf, and the figure you calculate should not be over 1.

Law of conservation of mass - No atoms are

lost or made in a chemical reaction. Instead, the atoms join together in different ways for form products, this is why, in a balanced symbol equation, the number of atoms of each element is the same on both sides.

<u>Pure and Impure Substances –</u> Something 'pure' as a chemical that is natural. This is a substance that is made up on one type of atom. If there is more than one type of atom, then that substance is called 'impure'.



This particle diagram shows an impure substance.



Substances can be tested to find out if they are pure. You can test melting points, boiling points or density. The more impurities that are added to the substance, the more the above will change.

Conservation of mass



Year 10 - Science Knowledge Bank - Spring Term (Chemistry)

Relative formula mass (RFM)



This is the atomic number (number of protons)

This is the atomic mass (number of protons and neutrons)



The relative formula mass is the total mass of the all the atoms in a molecule.

Avagadros constant and the mole - The number of units ir one mole of any substance is called Avogadro's number or Avogadro's constant. It is equal to 6.02×10²³



Mole Calculations

There is a relationship between the relative formula mass (M_r), and the mass of one mole of a substance:

The mass of 1 mol of a substance is its *RFM* in grams (g).

Moles and Concentration Concentration

"The relative amount of a particular substance contained within a solution or mixture or in a particular volume of space."



Concentration = g/dm^3 moles Concentration in moles/dm³ (molarity, M) can be calculated using the following triangle: vol conc

g dm⁻³



9

Titration

A titration is a laboratory technique used to determine the concentration of a solution by gradually adding a known concentration of another solution until a reaction is complete. You calculate concentration using the equations above.

Neutralisation

H+ ions formed when acids dissolved in water (aq)

OH- ions formed when alkali dissolved in water (ag)

 $H^+(aq) + OH^-(aq) \rightarrow H_2O(I)$ Acid + Alkali Salt + Water



dm³

Year 10 - Science Knowledge Bank - Spring Term (Chemistry)

<u>pH Scale</u>

A scale which shows you how acidic or alkaline something is. You can test this with a pH meter, Universal indicator or Litmus. This is a logarithmic scale and each value below pH7 is 10 times more concentrated.



Acid strength and concentration

Strong acids <u>dissociate</u> completely in water producing higher concentrations of H+ ions Weak acids do not <u>dissociate</u> completely producing lower concentrations of H+ ions.

Factors affecting Rates of Reaction

The rate of reaction tells you how fast reactants turn into products.

Four main factors affecting rates of reaction, **Temperature**, **Pressure**, **Surface area and Concentration**



reactants and products.

Catalysts also affect rate of reaction by providing an alternative reaction pathway lowering activation energy, they speed up rates of reaction without being used up. Catalysts can be chemical (Potassium Iodide) or biological (enzymes). Equilibrium



Knowledge Organiser 3 : Data Storage **COMPUTER SCIENCE**

1. Data units		2. Conversions
Bit (b)	The smallest unit of data. 0 or 1	Binary to Denary
Nibble (N)	4 bits	Denary to Binary
Byte (B)	8 bits (note the difference between b and B)	Hexadecimal to Denary
Kilobyte (KB)	1000 bytes. Note KB is different from Kb	Denary to Hexadecimal
Megabyte (MB)	1000 КВ	Binary to Hexadecimal
Gigabyte (GB)	1000 MB	Hexadecimal to Binary
Terabyte (TB)	1000 GB	Left Binary Shift
Petabyte (PB)	1000 TB	Right Binary Shift

3. Operations

Binary addition	You should arrange the two binary numbers above each other so that the columns line up. Start on the rightmost digit and add them. If there are any carries, write them down next to the next left column.
Overflow	If the answer to the left column results in a carry, this is known as an overflow and it causes an overflow error. This can cause problems if a computer program hasn't been written to handle overflows.
Left Binary Shift	Make the number longer, and therefore bigger. Each place it shifts will double the value. A binary left shift of one place (<<1) will double the value, a binary left shift of two places (<<2) with quadruple.
Right Binary Shift	Make the number shorter, and smaller. The right most digit is "lost", so we forget about it. A binary right shift of one place (written as >>1) halves the number, and a binary right shift of two places (>>2) will quarter it.
7. Soun	d
Analogue , Digital	Analogue sound waves must be converted into digital sound waves by taking a sample of the sound at set intervals. This is because computers can only work with digital 'numbers', and not analogue 'sound'

1. Data	units		2. Conversions	4. Chara	cters		
Bit (b)		The smallest unit of data. 0 or 1	Binary to Denary	Individual	E -	Each	character is assigned an individual binary code to represent it.
Nibble (N)		4 bits	Denary to Binary	Characters		ine i	
Byte (B)		8 bits (note the difference between b and B)	Hexadecimal to Denary	Character S	et o	The r code	name given to a collection of characters matching to binary es. There are many examples.
Kilobyte (K	(B)	1000 bytes. Note KB is different from Kb	Denary to Hexadecimal	Choice of		A cha	aracter set encoded with more bits allows more characters. This
Megabyte	(MB)	1000 KB	Binary to Hexadecimal	Character S	et i	is use	eful for accents, symbols, emojis, other languages (e.g. Chinese)
Gigabyte (GB)	1000 MB	Hexadecimal to Binary	5. Exam	oles of C	har	racter Sets
Terabyte (1	TB)	1000 GB	Left Binary Shift	ASCII	7-bits to	repr	resent characters allowing 127 characters to be represented
Petabyte (F	PB)	1000 ТВ	Right Binary Shift	Unicode	16/24/	32 k	pits. Covers many modern and historic languages, as well as lots
3. Opera	ation	S			of symbo	ols w	hich are used in maths and other specialist areas
Binary	You s	hould arrange the two binary numbers above ea	ach other so that the	6. Image	S		
addition	colum	nns line up. Start on the rightmost digit and add	them. If there are any	Pixel	The sma	llest	element of a bitmap image. Pixels desk
Overflow	If the	answer to the left column results in a carry, this is	is known as an overflow	Vector vs Bitmap	A vector rows of c	imag colou	ge describes the lines and shapes. A bitmap image consists of ured dots.
	progr	am hasn't been written to handle overflows.		Colour	The num	ber	of bits used to represent each pixel in a bitmap image. An 8 bit
Left Binary Shift	Make the va left sh	the number longer, and therefore bigger. Each alue. A binary left shift of one place (<<1) will do aift of two places (<<2) with quadruple.	place it shifts will double puble the value, a binary	Resolution	In a bitm the resol	nap ir lutio	mage resolution is measured in DPI (dots per inch). The higher n the better the picture quality
Right Binary Shift	Make forget numb	the number shorter, and smaller. The right mos t about it. A binary right shift of one place (writte per, and a binary right shift of two places (>>2) w	t digit is "lost", so we en as >>1) halves the vill quarter it.	Metadata	Data tha decode depth, th	t is s the i ne re	aved before and after the image to tell the computer how to mage. It includes the size in pixels (width x height), the colour esolution, the GPS location of where the image was taken, etc.
7. Soun	d			Image size	The size	of ar	n image is width x height x colour depth (+10% for metadata)
Analogue / Digital	/ An tak	alogue sound waves must be converted into dig	gital sound waves by s because computers can	Factors	Greater of and imp	coloı rove	ur depth and/or greater resolution will make the file size bigger, the quality of the image; and vice versa
5	onl	ly work with digital 'numbers', and not analogue	'sound'	8. Comp	ression		
Sample rat	e Nu	mber of times analogue signal is sampled per s	econd. Measured in Hertz	Compressio	n	0	Compression is when a file is encoded so it uses fewer bits than
Bit depth	Nu	mber of bits used per sample. Sometimes know	vn as sample resolution			t	he original file format
File size	Sar	mple rate x sample resolution x seconds		Lossless cor	mpression		Gets rid of unnecessary data to re-present data without losing
Factors	Lar imp the	ger sample rate and/or bit depth will make the prove the playback quality; and vice versa. Also, e recording longer will make the file size bigger,	file size bigger and making the duration of and vice versa	Lossy comp	ression	(Gets rid of the least essential data. This is an irreversible process: once data is lost it can't be recovered

I wante attraction and permission action	Key words	
Shahadah – declaration of faith Salah – prayer five times a day	Shahadah (Faith) Salah (Prayer)	Sawm Zakah Hajj (Fasting) (Almsgiving) (Pilgrimage)
Zakah – charity, giving money to the poor. Sawm – fasting during Ramadan Haii – nilerimage to Merca		
Niyyah (intention) – having the right intention to Sadaqah – additional giving, separate from Zaka	o worship God.	
Du'a prayers – personal prayers which may be si Ramadan – ninth month of Islamic year in lunar	aid at any time of the day. calendar. 11 days shorter than solar calendar so	Ramadan moves every year.
Jihad ('to strive') - There are two forms of Jihad. Greater Jihad- the daily struggle and inner spirit	ual striving to live as a Muslim.	
Lesser Jihad – the physical struggle or holy war i Id-ul-Adha – Festival of sacrifice – commemorat Id –ul Fitr – Festival of fast-breaking – end of Ra	n defence of Islam. e the sacrifice of a sheep by Ibrahim instead of hi madan.	s son, Ishma'il.
Ashura – day of sorrow & inspiration. Falls on th Ten Obligatory Acts (Furu ad-Din) – most import	ie 10 th day of month of Muharram. V Important d ant practices in Shia Islam.	ay for Shia – commemorate death of Husayn.
0	2. Salah	Types of prayer
	Prayer is most important way to worship God. Expected 5 times a day. Give thanks and submit to Allah. 'Prayer prohibits immorality	Jumu'ah are congregational prayers which happen on a Friday at midday. Men are expected to attend the mosque.
	and wrongdoing.' (Q 29). Preparation for prayer includes being respectful and showing	Du'a is personal prayer which takes place after prayers of duty.
	reverence and concentration. Part of this is Wudu – ceremonial washing of body – hands,	If Muslims miss a prayer they should make it up – 'If one of you sleeps or misses a
	mouth, nose face, arms, head and feet. Sign of inner cleanliness. Sunnah indicates	prayerlet him offer the prayer when he remembers.' Hadith.
The declaration of faith which says 'There is	Prayer involves prostration in ra'kah – movements of praver. Facing Mecca.	When Muhammad went on night journey he received the instruction from Allah through
prophet.' The other four pillars are outward		negotiation of Musa to pray 5X a day. 2
expressions of this deeping ineral versions of this deeping ineral versions of the second Him.' Q 3		
in call to prayer. Furthermore, these are first words whispered into new born baby's ear.		
God). 1 st pillar said to become a Muslim or		
revert; all born Muslims and so return to faith.	Second Rak'ah	
3. Zakah	4. Sawm	5. Hajj
All Muslims are expected to perform Zakah as a regular duty by giving 2.5 %. Qur'an	Fasting should take place during Ramadan and is considered the holiest month of the	Only pillar that is not compulsory. Compulsory for those who are able to make it
commands to give to those in need. It is an obligation and a form of worship. Zakah is a	year because it is the month when Prophet Muhammad first received revelation of the	physically and financially. Hajj is often the ambition of a lifetime. Haji (male) and Hajjah
sign of cleansing and purity. Wealth can cause greed which is evil, Zakah is a way of	Qur'an. Fasting is a way of practicing self - control by refraining from eating, drinking,	(female) are special titles for those who complete Haij – great honour.
purifying wealth. Our wealth is not ours but	smoking and sex from dawn til dusk for 30	Importance – Ibrahim threw stones at devil
humans for benefit of all. Humans have a role	with new moon and ends with Id-ul-Fitr	tempted not to follow God's order to sacrifice
representatives on earth. That means that	the sun has set with the iftar meal. These	frantically for water in desert. Miraculously
numans are looking arter this world and possessions to pass on to the next	meals are often very social with friends, family and neighbours. Muslims recite the	snown Zamzam well. Ibranim built ka ba. Mecca was where Prophet was born, received
generation. Therefore Muslims should view	whole Qur'an over Ramadan during special night prayers. On 27 th day. Muslims celebrate	revelations, returned to reclaim city. Hajj takes believers to sacred sites around Mecca
Muhammad practiced zakah as a practice	Laylat-ul-Qadr – Night of Power – revelation	Saudi Arabia. Muslim men will wear two
when he became ruler in Medina. Those that can receive Zakah include the poor, needy	of Qur an. Why do Muslims Fast? Commanded in Quran. Follows example of	white sneets. Women must wear plain long garment. State of Ihram – purity during Hajj.
and travellers. There are also Muslim charities such as Islamic Relief and Muslim	Prophet. Brings Muslims closer to each other. Worship Allah. Reminds Muslims of hungry	Key events – Tawaf – circling Kaba. Walk 7 times between Mawah and Safa like Hajar.
Aid which focus on healthcare and education	and poor. Promotes self-control.	Drink from Zamzam well. Wukuf -standing on
projects in developing countries. Sadadan is giving from the heart out of generosity and	wito stroutd tast? All except those young, iii, travelling.	forgiveness. Mina – throwing stones pillars (representing devil)
CUTTIPASSION		(representing devir.)

ETHICS

Component 3 Islam – Practices

aylat ul-Bara'at – Night of the full moon before Ramadan. The night Muhammad majority co oome Muslims stay up all night reciting the 2ur'an.Id-ul-Fitr – I majority co becorate ho flags. Dress flags. Dress mosques. S: st month of Muslim calendar, same month as st month of Muslim calendar, same month as tefrain from joyous events as Husayn was nartyred.Id-ul-Fitr – I majority co becorate ho flags. Dress mosques. S: friends. Giv delicious m celebration.	aryac-uwiraj – wight journey. Celebrate erusalem and then to heaven to the presence of Allah. Muslims tell the story to hildren and recite special prayers. Events at nosque.	Other FestivalsMawlid an-Nabi – Birth of the prophet. It is a uublic holiday in many Muslim countries.Id-ul-AdhaMuslim Britons celebrate this day with joyful processions.Marks end (Special for a OriginsMarks end (special for a Originsaylat-ul-Qadr – Night of Power. Celebrated luring Ramadan because it was first evelation of the Qur'an.Ibrahim's c to sacrifice God was tes	doesn't mee attacks inju legitimate a example of state with S methods. M	"We are finished with the lesser jihad; now we are starting the greater jihad." Some terron in their terr moderate N	o make the world a better place. Muslims hould be respectful of other faiths 'To you ve your religion, and to me mine.' (Q 109. art of greater jihad is tolerance. On his eturn from a battle, the Prophet said: Must have a	ommitment to be a better person to get up or prayers and to follow the Shari'a . Muslims hould 'encourage what is right and forbid who is wrong' (Q.3) as part of greater jihad	iave removed evir from your own line. ireater Jihad is struggle within oneself. It is society. ion-violent and spiritual. Jihad (struggle) is Origins equired to perform five pillars, follow When Propl unnah, seek justice and avoid temptation. Muslims we he hattle against lazinges lihad is a by the Merci	Duty to remove evil from society, Muslims Lesser Jihad nust fight for justice in the world when you certain circumation
Festival of fast-breaking amadan. Public holiday in Muslim untries, not in UK. pmes with colourful light, banners, in best new clothes. Gather in ay 'Id Mubarak'. Visit family and e gifts /money to children. Eat a eal. Give to poor. Cultural eal. Give to poor. Cultural s India- women apply Henna. dren given sweets. tr – donation to the poor so that an eat a generous meal at end of	t, new clothes, food prepared, nts made for sacrifice. e to pray, visit friends/relatives. holiday in UK. Sacrifice an animal. a butcher to slaughter a sheep for nare the meat with the . Giving this meat to the poor is a . Giving this meat to the poor is a . Giving this meat to the poor is a . diving this meat to the poor is a . hin the heart of each Muslim.	Ids – festival of sacrifice. of annual Hajj pilgrimage. whole Ummah to celebrate, Il Muslims not just those on Hajj. ommitment to God in being willing ommitment to God in being willing his son, Ishmael. his son, Ishmael. his son, Ishmael. im to sacrifice instead.	et the conditions for jihad. These re civilians and are not from a iuthority. Islamic State is another a group using violence to create a hariah law using barbaric hariah law using barbaric luslims reject that this is 'Islamic'.	st not be harmed. e mism rists claim to be using lesser jihad or attacks such as 9/11. However, Juslims reject this idea since it	ive but self-defence. proportionate. a legitimate authority or state	t in the way of God those fight against you but do ransgress." (Quran 2)	het Muhammad and early re being attacked and oppressed	is military struggle or holy war. In Junstances force should be used.
Ashu Not a Publi	his be injust Pract Proce the st and v Day c Day c publi to Ka proce men	Sunn Many by Pr basee thank thank Husa Battle	10	° 8 7 0	4 V a	ω	2 1	1 st 4 o pillar
ra in Britain public holid permission t c marches in ften bloodle	ice. ice. ices essions, Plays essions, Plays reets. Blood vail. f great sorro c grief. Often rbala. Wear I rbala. Wear I rbala. Wear I essions, re-er essions, re-er	i celebration r fast on this ophet Muhai d on Jewish d d on Jewish d God for sav (God for sav (God for sav g of Karbala i	Tawalla Tabarra	Amrbil Amrbil Mahi anil Mahi anil	Zakah Khums lihad	Најј	Salah Sawm	s. Excludes S
ay but Shia Muslims may be to have day off school. London and Manchester. tting but instead may give	leath with deep sense of , public displays of grief on often spilled and people cry wand self-mutilation with Shia will make pilgrimage black, slap chests, chant, nactments of martyrdom, lves with chains and cut s.	Ashura day which was established mmad as a day of fasting day of atonement. Time to ing Israelites from Egypt. Wartyrdom of Husayn ered and beheaded at the n 680CE. Husayn is 3 rd Imam	Association with good people eg those who follow the ahl al -bayt Dissociation with evil people	Allah Encouraging good actions Discouraging evil actions	Alms given 2.5% Tax set at 20% for causes decided by Shia leaders striving in the way of	has fully set. Pilgrimage to Mecca & Karbala (Husayn) & Najaf (Ali).	Praying 5 times a day at 3 different points. Fasting during Ramadan. Fast is broken once the sun	ts are found in Sunni 5 hahadah.

Y In	Dacances Holi	dave			La météo		Weather Forecas
<u> 8</u>	Vacances - Hom	1072	1	Y	le temps		the weather; time
hambre d'hôte	guest room, B&B	louer	to rent		il y a des nuag	ies	it's cloudy
berge de jeunesse	youth hostel	loger	to stay		du brouillard		foggy
fe	holiday cottage	compter (sur)	to count	t (upon)	des orages		stormy
ropriétaire	the owner	le séjour	the stay,	, visit	du soleil		sunny
olonie de vacances	holiday camp	le porte-monr	naie purse, w	allet	du vent		windy
station balnéaire	a seaside resort	aimer mieux	to prefe	r	il neige		it's snowing
ac de couchage	a sleeping bag				il pleut		it's raining
			НЬ		il fait beau		it's nice / sunny we
		hio			au printempe		in aprinationa
							in springlime
			a	ujourd'hu	au bord de la l	mer	at the seaside
			a	ujourd'hu	au priniemps au bord de la à la campagn	mer e	at the seaside in the countryside
DE FRAN			a	jeudi	au priniemps au bord de la i à la campagn il y a trop de bi	mer e ruit	at the seaside in the countryside it's too noisy
DE FRAN	Le temps TI	he Time		jeudi	au priniemps au bord de la i à la campagn il y a trop de bi la pêche	mer e ruit	at the seaside in the countryside it's too noisy fishing
DE FRA	Le temps TI yesterday	he Time plus tard	later	jeudi	au priniemps au bord de la i à la campagn il y a trop de bi la pêche un rendez-vou:	mer e ruit	at the seaside in the countryside it's too noisy fishing a meet-up
hier aujourd'hui	Le temps TI yesterday today	he Time plus tard puis	later then	jeudi	au bord de la l à la campagn il y a trop de b la pêche un rendez-vou: se reposer	mer e ruit s	at the seaside in the countryside it's too noisy fishing a meet-up to relax
hier aujourd'hui demain	Le temps TI yesterday today tomorrow	he Time plus tard puis puisque	later then since	jeudi	au priniemps au bord de la i à la campagn il y a trop de b la pêche un rendez-vou: se reposer rester au lit	mer e ruit s	at the seaside in the countryside it's too noisy fishing a meet-up to relax to stay in bed
hier aujourd'hui demain le lendemain	Le temps TI yesterday today tomorrow the next day	plus tard puis puisque une fois	later then since once	jeudi	au bord de la l à la campagn il y a trop de b la pêche un rendez-vou: se reposer rester au lit	mer e ruit s	at the seaside in the countryside it's too noisy fishing a meet-up to relax to stay in bed
hier aujourd'hui demain le lendemain depuis un jour	Le temps TI yesterday today tomorrow the next day for (since) one day	plus tard puis puisque une fois le matin	later then since once (in) the morning	jeudi	au bord de la l à la campagn il y a trop de b la pêche un rendez-vou: se reposer rester au lit	mer e ruit s - if 1 u	at the seaside in the countryside it's too noisy fishing a meet-up to relax to stay in bed
hier aujourd'hui demain le lendemain depuis un jour une quinzaine de jours	Le temps TI yesterday today tomorrow the next day for (since) one day a fortnight	he Time plus tard puis puisque une fois le matin le soir	later then since once (in) the morning (in) the evening	jeudi	au bord de la l à la campagn il y a trop de b la pêche un rendez-vou: se reposer rester au lit étais riche hèterais	mer e ruit s - if 1 u - 1 wo	at the seaside in the countryside it's too noisy fishing a meet-up to relax to stay in bed
hier aujourd'hui demain le lendemain depuis un jour une quinzaine de jours d'abord	Le temps TI yesterday today tomorrow the next day for (since) one day a fortnight firstly	he Time plus tard puis puisque une fois le matin le soir l'après-midi	later then since once (in) the morning (in) the afternoo	jeudi	au bord de la l à la campagn il y a trop de b la pêche un rendez-vou: se reposer rester au lit étais riche hèterais préférerais + infinitive	mer e ruit s - if 1 u - 1 wor	at the seaside in the countryside it's too noisy fishing a meet-up to relax to stay in bed was rich uld buy uld prefer to
hier aujourd'hui demain e lendemain depuis un jour une quinzaine de jours d'abord d'habitude	Le temps TI yesterday 1 today 1 tomorrow 1 the next day 1 for (since) one day 1 a fortnight 1 firstly 1 usually 1	he Time plus tard puis puisque une fois le matin le soir l'après-midi en été	later then since once (in) the morning (in) the evening (in) the afternood in summer	jeudi jeudi j ^{aci}	au bord de la l au bord de la l à la campagn il y a trop de b la pêche un rendez-vou: se reposer rester au lit étais riche hèterais sréférerais + infinitive ès m'être levé(e)	mer e ruit s - if 1 u - 1 wor - 1 wor - afte	at the seaside in the countryside it's too noisy fishing a meet-up to relax to stay in bed was rich uld buy uld prefer to

Les activités	Activities		\sim	\sim	\sim	\sim	\sim	$\sim\sim$	$\sim\sim$
lire un roman	to read a novel					Les p	oays	Countries	
faire	to do (or to make)	~ 7	je suis all	é(e) I	went			au Pays-Bas	in/to the Netherland
un stage de surf	a surfing course] (-	nous son	nmes allé(e)s	ve we	nt		aux Pays de Galles	in/to Wales
faire de l'escalade	to do (go) climbing	17	j'irai	1	will go)		en Suisse	in/to Switzerland
la planche à voile	sailing		nous allo	ons visiter	we are	going	g to visit	en Écosse	in/to Scotland
du VTT	Mountain Biking		en Allem	iagne i	n/to G	Germa	iny	à l'étranger	abroad
faire des achats	to do the shopping	1 (en Angle	eterre i	n/to Er	ngland	k		
se bronzer	to get a tan, sunbathe		\sim	\sim	\sim	\sim	\sim	$\sim\sim$	\sim
nager	to swim			Les bâtiment	s	Build	dinas		M
la piste cyclable	cycle path/lane	174		l'éalise	-	chur	ch	minable	pathetic
ll faut	you must			la bibliothèqu	e	libra	ry	obliger	to force
trouver	to find			le château		cast	le	sauf	except
II vaut mieux + inf	it would be better to			la gare		train	station	déçu(e)	disappointed
plein de	lots of		\backslash	la gare routiè	re	bus s	station	complet	full
en plein air	in the open air			l'hôtel de ville		Towr	n Hall	essayer	to try
découvrir	to discover			la mairie		Towr	n Hall	sale	dirty
voyager	to travel			le magasin		shop)	propre	clean
se déplacer	to get around	•		l'arrêt d'auto	bus	bus s	stop	en panne	out of order
à pied	on foot			là-bas		over	there		
à vélo	by bike			la no	urritur		Food	_	
en voiture	by car	un	repas	a meal	onnor	e	goûter	to taste	
en bateau	by boat	j'ai	i soif	I'm thirsty			plutôt	rather	AVIA
en avion	by plane	j'ai	i faim	I'm hungry			salé	salty (sale = dirty	
la station de ski	ski resort	le p	olat du jour	meal/dish	of the	day			

les opinions	opinions	
à mon avis	in my opinion	
selon moi	according to me	
je pense que	I think that	
je crois que	I believe that	
j'aime	I like	
je n'aime pas	I don't like	
j'adore	I love	
je déteste	Ihate	
je préférerais	I would prefer	
j'aimerais	I would like	
je voudrais	I would like	
si j'avais le choix	if I had the choice	
si j'étais riche	if I was rich	
j'ai toujours voulu	I've always wanted	

KEY PHRASES & COMPLEX STRUCTURES

j'espère + infinitive	I hope to
j'ai l'intention de + infinitive	l intend to
avant de + infinitive	beforeing
j'ai décidé de + infinitive	I decided to
Je viens de + infinitive	l have just
bien que + subjunctive	although
j'aurai seize ans en janvier	I will be 16 in January
je suis né(e) à	I was born in
après avoir mangé	after having eaten
après être allé(e)	after having been
j'ai toujours voulu	I have always wanted
je trouve ça	I find that
je pense que	l think that
à mon avis	in my opinion

je me suis couché(e) à	I went to bed at
je me suis levé(e) à	l got up at
cependant	however
d'habitude	usually
à l'avenir	in the future
aussi	also
mais	but
normalement	normally
Pour + infinitive – Pour garder la forme	to keep fit
puis	then
si	if
je voudrais + infinitive	I would like
je veux + infinitive	l want
je préférerais + infinitive	I would prefer to

yo

Qu'est-ce qu'il y a sur la phot	to? What is in the photo?
sur la photo, il y a	in the photo, there is
je peux voir	I can see
(deux) personnes	(2) people
un homme	a man
un garçon	a boy
une femme	a lady / a wife
une fille	a girl / daughter
il a les cheveux bruns	he has brown hair
elle a les yeux verts	She has green eyes
il porte un t-shirt rouge	he's wearing a red t-shirt
elle porte un jean bleu	she's wearing blue jeans
ils portent des vêtements	they are wearing clothes
ils s'amusent	they are having fun
il fait beau	it's sunny
il pleut	it's raining
	0





KEY FREQUENCY WORDS/TIME EXPRESSIONS & VERBS (PAST, PRESENT & FUTURE)



PAST			
yesterday			
last weekend			
last week			
last summer			
last year			

Yesterday	

FUTURE			
demain	tomorrow		
le lendemain	the day after tomorrow		
le weekend prochain	next weekend		
la semaine prochaine	next week		
l'été prochain	next summer		
l'année prochaine	next year		

Today

Thursday





PRESENT			
aujourd'hui	today		
quelquefois	sometimes		
d'habitude	usually		
normalement	normally		
généralement	generally		
souvent	often		
toujours	always		
tous les jours	every day		
tous les soirs	every evening		
tous les weekends	every weekend		
une fois par semaine	once a week		
deux fois par semaine	twice a week		
une fois par mois	once a month		
chaque année	every year		
le lundi	on Mondays/every Monday		
le mardi	on Tuesdays/every Tuesday		

INFINITIVE	PAST	PRESENT	FUTURE
manger – to eat	j'ai mangé	je mange	je vais manger
	nous avons mangé	nous mangeons	nous allons manger
visiter – to visit	j'ai visité	je visite	je vais visiter
	nous avons visité	nous visitons	nous allons visiter
regarder – to	j'ai regardé	je regarde	je vais regarder
watch	nous avons regardé	nous regardons	nous allons regarder
aller – to go	je suis allé(e)	je vais	je vais aller
	nous sommes allé(e)s	nous allons	nous allons aller
boire – to drink	j'ai bu	je bois	je vais boire
	nous avons bu	nous buvons	nous allons boire
jouer – to play	J'ai joué	je joue	je vais jouer
	Nous avons joué	nous jouons	nous allons jouer
faire – to do	j'ai fait	je fais	je vais faire
	nous avons fait	nous faisons	nous allons faire
être – to be 17	j'étais – i was c'était – it was nous étions – we were	je suis – i am il/elle est – he/she is nous sommes – we are	je vais être il/elle/on va être nous allons être

What is Urbanisation?

GEOGRAPHY

Sustainable Urban Living

Traffic Management



Location and Background

London can be found in the South East of England, located on the River Thames which has been influential in its growth, and in the centre of the densest population of the UK. It also hosts the parliament of the UK.

time.

IRELAND UNITED ELAND ENGLAND

- Within Europe, London is part of Europe's economic core, the area producing the majority of the GDP or wealth of Europe.
- London is one of the most visited cities in the world.
- London has several major airports including Heathrow, Gatwick, City and London Stansted.
- 65% of London's land is either gardens, public green space or water.

City's Opportunities

Social: cultural mix or multiculturalism basically refers to a

together in close proximity. Multiculturalism is an issue in

many HICs and can be viewed in both a positive light and as

Economic: London is a major world financial centre and a

range of businesses which attract a highly skilled workforce.

likely to be employed in managerial, professional or associate

• London residents (aged 16 to 64 and working) are more

• The unemployment rate was one of the highest (10%)

Environmental: Urban greening means to increase the

amount and proportion of green spaces within a city. These green spaces are essential for people's quality of life. London

Plymouth Regeneration:Drake Circus & Mill

country or place that has more than one culture living

something that can pose problems that need careful

Location and Background **City's Importance** Located in



City's Importance

The city was originally a small fishing village. In the early twentieth century it became the capital city of Nigeria until 1991 when the government moved to Abuja.

The population of Lagos increases by approximately 600.000 each year. The Lagos State Government estimates the population of Lagos to be 17.5 million. Urban growth occurred along the line of the railway. A population boom occurred during the 1970s as the result of the growth of the oil industry. Many thousands of people moved to the city seeking jobs in this industry. 80% of Nigeria's industry is located within Lagos. It remains the main financial centre of West Africa. The city has an international airport and an important sea port.

Migration to Lagos

Urban Change in a Major NEE City: LAGOS Case Study

Reasons for rural to urban migration

Education and health services are poor in rural areas. Changing climate is making the weather less predictable. Droughts and floods occur more often, now.

Farming pays low wages but requires a lot of hard work. Few job opportunities exist other than farming. There is a land shortage due to population growth.

Despite urbanisation, rural population continues to grow. Land is degraded due to farming and other activities. Land in the Niger Delta region is polluted by the oil industry. Political unrest creates insecurity. The terrorist group, Boko Haram, is active in the north of Nigeria.

into London than out of it 3. Natural Change has been positive, so births have been above deaths and this has boosted the population size. Population of London (millions)

Migration to London

There are 3 main reasons for migration to London:

negative; that is the numbers of people moving out of

residents moving in. This balance has got smaller over

1. Internal (within the UK) migration has been

London has been greater than the number of UK

2. International net migration is positive, so there

have always been more foreign born people moving



City Challenges

Social: House price increase along with greater house shortages. Inequalities in education. Increased crime rates.

Economic: INEQUALITIES exist in London between the rich and the poor - income, education, housing.

Environmental: Urban sprawl has led to increased pressure and decline of greenfield sites around the city. London suffers from air pollution due to a dense road network and high buildings. This means that central London tends to be one of the most polluted places in the UK.

Bay Two focuses: Drake Circus and Drake Leisure

has made attempts to offer lots of green spaces

professional and technical occupations.

Drake Circus was an old shopping centre and Drake Lesiure was the old Coach station.

Drake Circus and Drake Leisure

Social - encourage people into the city centre Economic - People spending money in the area

Mill Bay:

management.

Social - range of new housing Economic - range of construction jobs, new school Environmental - cleaned up marina. urban greening prospect of well-paid work and the attraction of an urban lifestyle. Another reason for Lagos' population growth is the high rate of natural increase in the city's population. This is due to the city's youthful population, since most migrants to the city are young. Nigeria is

The main reason for migration to Lagos over the past

50 years has been rural- urban migration. People are

encouraged to leave the countryside by push factors

such as the lack of job opportunities and low wages.

They are brought to the city by pull factors such as the

becoming an increasingly urbanised country. By 2015, just over half the population was still living in rural areas, but as rural- urban migration continues, the majority will be urban within the next few years.

Self-help schemes – Floating School

Social: There is a severe shortage of housing, schools and healthcare centres available. Large scale social inequality, is creating tensions between the rich and poor.

City Challenges

Economic: The rise of informal jobs with low pay and no tax contributions.

Environmental: Shanty towns are established around the city, typically on unfavourable land, such as low lying flat land vulnerable to flooding.

Makoko is one of the world's largest waterside slums, much of it built on stilts above the waters of the Lagos Lagoon, on the eastern fringes of the city of Lagos in Nigeria. With an estimated 2,000 people migrating to Lagos every day, many end up in informal settlements like Makoko and people started building over the water. One of the main requirements was for more school space. The existing school is built on reclaimed land, but does not have room to expand and is also subject to periodic flooding. Adevemi volunteered to design and help build a floating school for the area. Adeyemi designed a 3-storey A-frame multipurpose structure that could serve as a school as well as a venue for local community meetings and other activities. The whole structure floats on a matrix of 256 plastic 200-litre drums. Some of the outer drums can be used to store rainwater, a solar panel is used to supply electricity, and there are composting toilets aboard. In June 2016, however, the project was dealt a blow it collapsed during a heavy thunderstorm in Lagos.



HISTORY KNOWLEDGE ORGANISER – Weimar & Nazi Germany



Legacy: Pre 1919

Kaiser
Chancellor
Unification
1st Reich (962-1806)
2nd Reich (1871-1918)
Armistice
Demonstrations
Abdicate
German Revolution
Republic

Kaiser Wilhelm II Otto Von Bismarck Phillip Scheidemann Friedrich Ebert Matthias Erzberger Paul Von Hindenburg Industrialisation Militarism Nationalism

Kaiser Wilhelm I

Weimar Republic: 1918-32

Weimar Government	Sparticists Revolt	1919
Putsch	Kapp Putsch	1920
Guilt Clause	Reparations missed	1922
Civil Servant	French Occupy Ruhr	1923
Constitution	Passive Resistance	
Electorate	Hyperinflation	1923
Proportional representation	League of Nations	1919
Hyperinflation	Dawes Plan	1924
Rentenmark	The Locarno Pact	1925
Economy	Kellogg-Briand Pact	1928
November Criminals	Young Plan	1929
Stock Market	Wall Street	1929
American Loans	Great Depression	1929-39

Left Wing – Sparticists/Communists Right Wing – Freikorps brigade/Kapp Putsch

Rise of Hitler: 1919-32

National Socialist German Workers Party (NSDAP)

W Hí

Democracy
Orator
Constitution
Reichstag
Elections
Paramilitary Force
Nationalism
Socialism
Totalitarianism

WWI ended	1918
Hitler joins the NSDAP	1919
Hitler leader the NSDAP	1921
The SA formed	1921
Munich Putsch	1923
Re-launch of Nazi Party	1925
Hitler forms the SS	1925
Bamberg Conference	1926
German Election	1933

Ernst Rohm

Swing Kids

Adolf Hitler

Wilhelm Frick

Cardinal Galen

Key People

Rudolph Hess Heinrich Himmler Reinhard Heydrich Edelweiss Pirates Gertrud Scholtz-Klink **Joseph Goebbels** Hermann Goring Martin Niemoller White Rose Group Sofie Scholl

Dictatorship: 1932-9

Establishing	Chancellor	1933
Dictatorship	Reichstag Fire	1933
Trade Unions	Enabling Act	1933
Political Parties	Religious Persecution	1933
Decree	Gestapo	1933
Opposition	Concordat	1933
Nationalism	Nuremberg Rally	1933
Influential	The Peoples Court	1934
Patriotism	Night of the Long Knives	1934
Denunciation	Fuhrer	1934
Interrogation	Total Power	1934
Terror	Machinery of Terror 1	.933-9
Enlightenment		
Propaganda ('weap	on on the wall')	





Life in Germany: 1933-9

Unemployment Blood and Soil Autobahns Mother's Cross Bronze Medal (4) Silver Medal (5-7) Gold Medal (8+)

Women's leader of DFW 1934 Lebensborn Programme 1935 Strength through joy 1935 Beauty of labour 1935 Reich Labour Service 1935 Volkswagen Scheme 1935 1935 Rearmament

DAF (Deutsche Arbeitsfront) German Labour Front BDM (The league of German Maidens) DFW (German Women's Enterprise) 193

'Kinder', 'Kirche', 'Kuche'. (children, church, kitchen)

Racial Policy Anti-Semitism Eugenics **Racial hygiene** Kristallnacht Ubermenschen Untermenschen Social-Darwinism **Concentration Camps**

Jews Gypsies Slavs (Eastern Europe) Black people Homosexuals Disabled Tramps Non-Aryan people

Component 1: Creative Practice in Art & Design CIMEN'S OF OUR WOR

investigation, visual language, approaches, skilful, comparisons, risk-taking, communication, Words insightful, practitioners, two-dimensions, manipulate, traditional, contemporary, Key disciplines, constraints, line, tone, shape, colour, pattern, texture, composition, space, depth, light,

shadow, harmony, contrast, symmetry, asymmetry.

Materials, Techniques and **Processes:** pencils, graphite, ink, pen and wash, drawing pens, chalk, pastels, hand-made tools, print-making, painting, acrylic, watercolour, ink, digital drawing, manipulation, textiles, print, embellish, collage, photography and digital manipulation.



- A. Use investigation and experimentation processes in art and design practice.
- Generate and communicate art and design ideas.
- C. Develop practical skills through application and review
- D. Record and communicate skills development.

Fragments of Our World:

(a small part broken off or separated from something, break or cause to break into fragments)

Artists, designers and crafts people need 2D skills and knowledge to communicate their ideas effectively. Working in 2D requires skills in handling 2D materials and techniques. In Component 1 you will experiment with a range of 2D mark-making activities whilst exploring and being inspired by Fragments of Our World. You will focus on either **people**, architecture or natural forms.



- Investigate historical and contemporary practitioners.
- for Success • Consider your audience needs.
 - Research primary and secondary sources.
 - Respond to the work of others practically.
 - Solve creative problems.
 - Reflect on your ideas.
 - Support visual ideas with diagrams, annotations and explanations.
 - Consider health and safety practice.
 - Learn from mistakes through trial and error.
 - Stay organised.

Tips

Consider presentation.



Useful Websites

- www.artjournal.co.uk
- www.creative-choices.co.uk/industry-insight/inside/design ٠
- www.culture24.org.uk/
- www.fashion-era.com/C20th costume history
- www.graphicdesign.about.com/arts/graphicdesign
- www.masters-of-photography.com



and experimentation Use investigation processes in art and design practice - research a range of practitioners, using primary and secondary sources. Develop understanding of art and design practice through investigation and experimentation, exploring how practitioners use materials, techniques and processes to find creative solutions and communicate with audiences.

Generate and communicate art and design ideas - explore and develop a range of experimental and imaginative ideas, applying research and practical investigation to visually communicate ideas.

Develop practical skills through application and review - develop practical skills through exploration of materials, techniques and processes. Practise and review skills relevant to creative intentions in order to develop and improve work.

Record and communicate skills development - use methods of recording to document and communicate development of skills and creative work.





Artists to Investigate:

Erik Jones, Josh Bryan, Nick Gentry, David Hockney, Khan Nova, Ed Fairburn, David Mack, Faig Ahmed, Fernand Léger, Daniel Clark, Alan Fletcher, Charles Sheeler, Jon Measures, Rebecca Vincent, John Piper, Sey Fedulor, David Schnell, Sophie Layton, Bonnie and Clyde, Florian Nicolle, Ray Van Nes, Irene Imfeld, Matthieu Paley, Ian Murphy, Edward Weston and Amiria Gale, Sophie Layton and Bonnie & Clyde.



dea into Practice .3 Putting a **Business**

1.3.1 Aims & Objectives

Aims – a long term, strategic goal eg grow the business

Objective- a short term specific target eg increase market share by 5% this year

Financial Objective – one that involves money eg improve sales, profit, market share, survival etc

Non Financial Objectives – one that does not involve money : personal satisfaction, challenge, control,

independence, social benefit

1.3.2 Revenue, Costs and Profit

Formulas needed

Revenue = Selling Price x Quantity

Profit = Revenue – Total Cost

Total Cost = Fixed Cost + Variable Cost

Total Variable Cost = Variable Cost per unit x Quantity

Breakeven = Fixed Cost/(Selling Price-Variable Cost)

Margin of Safety = Actual Sales Breakeven Level

Interest = (Total Repayment – Borrowed Amount)/Borrowed Amount

1.3.2 Revenue, Costs and Profit

Key Terms

Variable Costs - costs that change with the level of output eg raw materials

Fixed Costs – costs that do not change with the level of output eg rent

Interest – cost of borrowing money from the bank or other financial institution

Breakeven – the minimum level of output needed to cover all costs, so no profit or loss is made

Margin of Safety – the amount of sales the business can afford to lose without making a loss



dea into Practice .4 Putting a Business

1.4.1 Business Start ups

Franchise – when one business (the franchisor) sells the right to use their brand and sell their product to an individual or other business (the franchisee).

Sole Trader - a business owned by only one person, who can employ others if they like. A sole trader has unlimited liability.

Partnership – business owned by between 2-20 partners who all own part of the business and normally are involved running the business. Partners have unlimited liability.

Private Limited Company – Tend to be family run businesses. They can sell shares to family and friends but not to the general public. Shareholders have limited liability.

Liability – the amount of financial loss or criminal/civil damage you are responsible for.

Unlimited Liability – The owners are responsible for all the debt of the business and could lose their personal possessions like home and car because of it.

Limited Liabiliity – any financial loss is limited to the financial investment made into the company, any personal assets are safe.

1.4.2 Business Location

Factors influencing business location

Proximity (closeness) to: customers, staff, materials and competitors

The nature of the business activity

The impact of the internet on location decisions

e-commerce vs bricks and mortar shops

e-commerce saves on need for expensive high st location next to customers saving money but many enjoy trying goods before they buy.





Cash Flow Forecasts

Opening Balance – money in the bank at the beginning of the month

Cash in – all money into the business including revenue, investment, loans etc

Cash out – all money out of the business including purchases and expenses

Net Cash Flow – How much the money in the business has changed

Closing Balance – money in the bank at the end of the month

CASH FLOW FORECAST

MERICAN

æ	Wk1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9
Opening Balance	0	(4,850)	(9,950)	(14,300)	(8,650)	(13,700)	(18,500)	(21,900)	(26,400)
CASH INFLOW									
Online Shopping Revenues	2,000	2,250	2,500	3,000	3,250	3,500	4,000	4,250	4,500
Government Grant				10,000					
Total Inflows	2,000	2,250	2,500	13,000	3,250	3,500	4,000	4,250	4,500
CASH OUTFLOW									
Office rental	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)
Employee Salaries	(5,000)	(5,000)	(5,000)	(5,000)	(6,000)	(6,000)	(6,000)	(6,000)	(6,000)
Utilities (energy, water and broadband)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)
Travel	(450)	(450)	(450)	(450)	0	0	0	(450)	(450)
Digital Marketing	0	(500)	0	(500)	(500)	(500)	0	(500)	(500)
Shipping	(100)	(100)	(100)	(100)	(500)	(500)	(100)	(500)	(500)
Total Outflows	(6,850)	(7,350)	(6,850)	(7,350)	(8,300)	(8,300)	(7,400)	(8,750)	(8,750)
NET CASHFLOW									
Closing balance	(4,850)	(5,100)	(4,350)	5,650	(5,050)	(4,800)	(3,400)	(4,500)	(4,250)

²arentheses denote negative numbers

Sources of Finance for Business

Short Term

Overdraft – having a negative balance in the bank account

Trade Credit – buy now pay later given by suppliers

Long Term

Personal Savings – business owners putting in their own money

the business and lend their expertise and experience to help business succeed Venture Capital – (Dragon Den) experienced business people invest for a share <u>o</u>f

Share Capital – selling shares in the ownership of the business to others

Loans – borrowing money from a bank and repaying with interest

Retained Profit – using profit made previously to reinvest in the business

investors/donors in exchange for a loan, shares, discounts/privileges etc Crowd Funding – using online platforms to raise money from a range of



1.4.3 The Marketing Mix

Key Terms

Marketing Mix – 4Ps – Price Product, Place and Promotion

Adjusting the marketing mix based on the levels of competition. Eg lowering prices if a new competitor starts to steal customers

How changing customer needs impact the marketing mix eg with more people working and more living alone the need for convenience in food is leading to increase in ready meals and deliveries

Impact of technology on the marketing mix, especially e-commerce impacting place and digital communications influencing Promotions.









1.4.4 Business Plans

Business Plans tend to include:

The business idea; aims and objectives; target market (market research); location, marketing mix; forecast revenue, costs and profit; and sources of finance.

Business Plans are used to attract finance from banks (loans) or investors as they show why the business needs the money and by when they will be able to pay it back.

They also help to minimise risk as they aide entrepreneurs to consider different aspects of the business and get prepared. Eg arrange overdraft if a shortage of funds identified for a short period of time.

Year: 10 Child	l Developn	nent U	Unit Title:	Developmental Norms for Children		Term: 2	
The Powerful Question: What are the expected development norms for a child aged between 3 to 5 years			en 3 to 5 years		You should be able to explain: Explain, using examples, the expected physical, intellectual and social developmental norms for a child aged 3 to 5 years.		
	Physic	al Development – Advanceme	ents of m	notor and fine skills	Powerful Language	Synonyms	Definition and sentence to contextualise
(^{CD})	Intellectual Development – Growth of a child's ability to think			Developmenta	1	The standards at which a child's	
NEXAL [®]	Social Development – Building relationships and interacting with others		TNorms	Normal Growth	development can be measured Eg. By the age of 6 months a baby should be able to turn over from their front to their		
	Physical Development Norms				back.		
Age		Gross Motor Skills	Fine Motor Skills		Physical Development	Body	How children obtain physical control of the movements they make with their body eg.
3 Years		Start to run and walk on t toes as balance develops	tip	Can use a tripod grip in order to hold a pencil.		Growrh	Fine motor skills, gross motor skills and reflexes.
		Can kick moving balls as h eye coordination improve	nand/ es.	Can control their pincer grip to do up zips.	Reflexes	Unthinking Movements	The physical reactions a new-born baby is expected to display eg. Grasp reflex
4 Years		Able to change direction w running. Are able to catch balls and throw more easily.	when d	Can use safety scissors to cut out basic shapes. Build a 10 block tower.	Fine Motor Skills	Small Skills	The small movements made with your fingers which links with the development of your vision (hand-eye co-ordination) eg. Drawing and writing
5 Years		Can ride bike with stabiliz walk on stepping stones a balance continues to imp	ers/ as rove.	Have greater control over pencils, colouring pens in order to draw	Gross Motor Skills	Large Skills	The large movements that the body produces eg. Kicking a ball or crawling.

Year: 10 Child Deve	elopment	Unit T	itle: Developmental Norms for	Children	Term: 2	
The Powerful Questio What are the expe	n: cted developmen	t norms for a child aged be	tween 3 to 5 years		You should be able to explain Explain, using examples, th social developmental norm	n: ne expected physical, intellectual and ns for a child aged 3 to 5 years.
Intellect There are 3 main Intellectual Development	categories for int categories for int of synonyms Brain Development	ent – Growth of a child' ellectual development. Literacy Definition and sent Known as cognitive devel including language, readin writing communication a	As ability to think	Numer This is linked to problem and is known as number Speaking and using num apples Counting – including ma squares Recognising numbers e. Using mathematical idea Recognising and drawing Recognising and drawing Recognising and making even numbers, sequenci Using the correct vocabu taking away Simple calculations e.g. Using appropriate langu apples now	acy Skills solving and reasoning skills. These include: bers e.g. there are 2 thematical number g. 1,2,3 etc as e.g. size, shapes, mass g shapes e.g. triangles patterns e.g. odd and ng ulary e.g. adding and 2+2 age e.g. Daisy has less	Communication Children use communication through observing and copying what they hear/see: Body language – expressing feelings through the position of their body Listening - being able to hear and understand what is being said Verbal – building on the vocabulary that they hear Gestures – pointing to things that children want Sign language – children with hearing impairments may use sign language Reading and writing – using the written form to communicate
Communication	Social messages	Listening and understand a child to get what they w The ability to use their th message across.	ing what to say in order for /ant. inking skills to get their	Literacy Skills Reading and writing are known as literacy skills. Developing a love of book	bonon Grindbar (b) bonon Grindbar (b) s FIRST	Language is used to communicate as children listen and understand what they want to say. They use their thinking skills in order to get their
Literacy	Reading and Writing	The skill used to read and	write.	with a child will help with this skill. This can be		Ciao! (TPUBET) (5543) HELO. Cia
Numeracy	Maths	The skill to recognise, und	derstand and use numbers.	developed from an early age and can be encourage through reading books to child from birth.	ed a edupter	Oil iHola Salut! ANNER 17 OI ola HELO Ciao! 15543 iHola Oi! Helo! Oi!

Unit Title: Developmental Norms for Children

Term: 2

The Powerful Question:

What are the expected development norms for a child aged between 3 to 5 years

2

You should be able to explain: Explain, using examples, the expected physical, intellectual and social developmental norms for a child aged 3 to 5 years.

Q° Q°

Social Development – Building relationships and interacting with others

Powerful Language	Synonyms	Definition and sentence to contextualise
Social Development	Growth in interactions	Known as cognitive development, including language, reading and writing, communication and number skills
Communication	Social Messages	This is closely linked with intellectual development of language and communication
Acceptable Behaviour	Good behaviour	How they handle emotions and the development of manners and behaving in socially acceptable ways.
Self Esteem/ Independence	Confidence	This is when a child has a sense of self worth or personal value.
Sharing	Giving to others	Sharing toys, objects and people. Also things like waiting their turn. This takes time to master
Self Confidence	Confidence	This is when a child has a feeling of belief and trust in their own ability

Independence/ Self Esteem

Children gradually become more able to do things independently as they develop. Children are likely to feel proud and clever each time they do something by themselves. Children will feel even more proud if they are praised by others. This has a positive effect on their self esteem, which in turn gives them self confidence. Every day routines that promote independence are extremely valuable to children. Learning the routines of self care eg. Bathing, washing and cleaning teeth. Being encouraged to try to dress themselves is important for independence and prepares children for when their parents/ carers are not around eg. Going to nursery or school. Praise should be given to emphasise independence when a child tidies away after themselves eg. Toys or taking plates and cups into the kitchen.



3 Years – Shows concern and affection for others/ Copies adults and friends/ Takes turns in games/ Separates easily from parents/ Shows a wide range of feelings/ Dresses and undresses self/ Maybe toilet trained during the day.



4 Years – Plays co operatively with other children/ Prefers playing with other children rather than alone/ Enjoys doing new things/ Becomes more creative in make-believe play/ Seeks new experiences/ Expresses likes and dislikes



5 Years – Wants to please friends/ Wants to be like friends/ Agrees to rules more easily/ Likes to sing, dance and act/ Knows who is a girl and a boy/ Knows the difference between fantasy and reality.

Year: 10 Child Development	Unit Title: Developmental Norms for Children	Term: 2
The Powerful Question: What is the importance of play?		You should be able to explain: To know and understand the different types of play and the relevant stages of play

Stages of Play		Type What is is Examples of mani		Examples of manipulative play	
Powerful Language	Synony ms	Definition and sentence to contextualise	Manipulative Play	This involves children using their hands, (fine motor skills) for example to move, turn or screw things to make them	Puzzles Mark making (drawing/ painting/ writing) Shape sorters Threading beads Craft activities
Solitary Play	Playing alone	Solitary play, also known as independent play, is one of the earliest stages of play where children play alone because they have not developed socially to be able to play with others yet or because they choose alone time.	Co-operative play:	Play which takes account of others actions within their play together; sharing, group play e.g. shop keepers and customers or games that	Construction toys Board games Circle games (here we go round the mulberry bush/ the farmers in his den) Playground games (what's the time Mr Wolf?) Imaginary role play (dressing up (toys (teddies (tea sets)))
Parallel Play	Playing along side	Parallel play is a description of children playing side by side, but not interacting with	114.47	have rules to follow.	Imaginary play with small world toys (cars/ farm set/ dolls house)
Associativ e play	others	Associative Play is one of the categories used to describe the development of	Solitary play:	Where the child plays alone, in their own space, exploring and experimenting with objects.	 Imaginary play (role play/ small world play) Puzzles Books Video/ computer games
	blaying with each other bother	Physical play:	Play that involves gross motor skills, the muscles and moving around, such as football or a climbing frame	 Ball games Running/ jumping/skipping/ hopping/ crawling etc. Playground equipment (slides/ swings) Ride- on- toys and bikes Push and pull toys Dancing 	
Co- operative play	Playing with someone else	Cooperative play focuses on children working together to achieve a common goal, such as building a play structure, putting together a puzzle, or engaging in dramatic play. It has been described as the stage where children play in a group.	Creative play:	Where children experiment with materials, collage, painting, music, imagination.	 Music and dance Mark making (painting/ drawing/ writing) Making models Sand and water play Stories Imaginary play

CONSTRUCTION

WJEC Level 1 / 2 Vocational Award in Construction and the Built Environment (Technical Award)

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WJEC Vocational Award in Construction and the Built Environment (Technical Award) Unit 1 Introduction to the built environment

1.1 The Sector



WJEC Vocational Award in Construction and the Built Environment (Technical Award)

Unit 1 Introduction to the Built Environment

1.1 The Sector

1.1.4 Professional and managerial roles

	Professional and managerial role	Description of job
	Designer/ Architect	Produces detailed drawings. Creates new buildings/renovations. Designs to meet Client requirements. Post design stages of project for client.
	Civil/Structural Engineer	Designs, plans and manages construction projects. Solves problems. Structural solutions, design codes, building regulations. Risk assessment
	Contracts Manager and site manager	Responsible for coordinating construction site activities. Progress, meetings, resources, activities, health and safety
	Surveyor	Surveys land. Sets out construction works. Produces data and drawings for Architects and structural engineers.
	Quantity Surveyor	Financial management. Payments to subcontractors. Final accounts. Budgets and Costs
	Professional associations 32	CIOB, RICS RIBA

WJEC Vocational Award in Construction and the Built Environment (Technical Award)

Unit 1 Introduction to the Built Environment 1.2 The Built Environment Life Cycle



WJEC Vocational Award in Construction and the Built Environment (Technical Award)

Unit 1 Introduction to the built environment 1.3 Types of Buildings and Structures




Unit 1 Introduction to the Built Environment 1.4 Technologies and materials – Main Materials

Main Materials involved in constructing walls, installing building services, fitting roofs and finishing interiors	Materials and components
Exterior walls	Structural element, load bearing masonry (insulating blockwork)structural frame (steel or timber)structural insulated panels Insulation, mineral fiber rolls, sprayed foam, rigid foam slabs. Exterior cladding, brick and rendered blockwork, steel sheeting, aluminum faced insulated panels, curtain walling
Internal walls and floors	Block or stud (timber or steel) partitions Timber, concrete or steel floor joists
Secondary structures	Steel lintels, joists and timber trussed rafters for masonry walls. Sheeting rails and purlins for steel frames
Roof finishes	Slate or concrete tiles for timber trussed roofs Steel sheeting over insulated lining trays for steel frames structures Rubber based sheeting or fibreglass for flat roofs
Internal finishes	Floor screeds and boards Plasterboard for walls and ceilings Wall and plaster decorations
Building services	Incoming services run through sub structure. Internal drainage run through external walls for connection
Building services materials	Plastic and copper pipework for plumbing and heating systems. Plastic rainwater goods and drainage systems Copper cable for electricity and communication systems.

Unit 1 Introduction to the Built Environment 1.4 Technologies and Materials 1.4.3 Renewable Technologies



Unit 1 Introduction to the Built Environment 1.5 Building Structures and Forms



Building Structure	Form
Cellular Constructions	Load bearing walls provide the main vertical support and lateral stability for floors. External wall panels. Lift shafts used to provide stability. Bridging components supported by load bearing walls. Prefabricated modular construction.
Rectangular Frame Constructions	Weight is carried by a skeleton or framework of columns, rather than being supported by walls. Lightweight timber frame common. Steel and reinforced concrete on larger structures. Metal or glass can replace external walls.
Portal Frame Constructions	Beams or rafters are supported either end by columns. Columns are secured to pad foundations. The joints between the beams and columns are rigid so the roof can span large distances.
Heritage and Traditional Methods	Maintain the history and character of a building. Comply with planning regulations within conservation areas. Preserve our heritage for the benefit of present and future generations



Unit 1 Introduction to the built environment 1.6 Sustainable Construction methods - Benefits



Unit 1 Introduction to the Built Environment

1.6.3 Sustainable Materials used to create building frames walls and roofs



Unit 1 Introduction to the Built Environment 1.6.4 Waste Disposal, re-use and recycling



Unit 1 Introduction to the Built Environment 1.6.5 Planning Permission, Brownfield and Greenfield



Туре	Definition	Benefits/Drawbacks
Planning Permission	Local planning Authorities control the development of the built environment in the area.	Legal requirement/ Cost
Brownfield sites	Land used before, disused or derelict	Existing buildings may have to be demolished with clean-up costs for decontamination. Can clean up eyesores. Access to roads and drainage may already be there
Greenfield sites	Land that has not been built on before.	Tend to be cheaper to develop. Legal and planning constraints. New roads and utilities need to be taken into account

Unit 1 Introduction to the Built Environment 1.7 Trades Employment and Careers



Bricklaying	Works from plans, lays mortar places bricks, checking alignment, traditional bonding methods.
Stonemasonry	Dresses, carves and lays traditional stonework, dry- stone walling. Repairs existing stone Mouldings
Plastering	Applies wet finishes and protection on external walls. Applies plaster to internal walls, dry lines, ornamental plasterwork.
Carpentry and Joinery	Joiner joins wood in a workshop which a carpenter fixes on site, installs floor joists, floorboards, staircases, doors
Electrical Instillation	Installs, inspects and tests electrical services and equipment following safety regulations
Plumbing instillation	Installs cold and hot water, toilets, boilers, central heating, safety regulation, Gas Safe,
Painting and Decorating	Prepares and applies paint, wallpaper, and other finishes to internal and external surfaces. Follows safety regulations
Flooring and Tiling	Prepares and applies levelling compound, carpets, vinyl floor, Installs ceramic wall and floor tiles.

Unit 1 Introduction to the Built Environment 1.8 Health and Safety Working Safely

	Type of Work	Health and Safety Considerations
	Using Personal protective equipment (PPE)	Assessing the use of PPE as a control measure. Preventing exposure to dangerous environments such as heat. Cold, chemicals, biological risk by the selection of the correct PPE. Training workers in use of PPE
)	Safely working with gas, water and electric	Competent person only to work with gas electric, qualified and Gas Safe. Follow work practices and safety procedures. Know how to cut of the supply of Gas Water or Electricity for isolation prior to caring out work.
)	Working at Height	Must be planned and use appropriate method of access eg Scaffold. Take into account the weather. Use equipment that has been appropriately inspected. Control risk from fragile surfaces and falling objects
5 m	Working in enclosed spaces	Exposure to fumes, reduced oxygen levels, flooding/drowning, the risk of fire and explosive atmospheres, entrapment in machinery.

Unit 1 Introduction to the built environment 1.8 Health and Safety - Risk



Unit 1 Introduction to the built environment 1.8 Health and Safety - Legislation



Unit 1 Introduction to the built environment 1.8 Health and Safety – Risk Assessments



Unit 3 Constructing the Built Environment

3.1 Interpreting Technical Sources of Information.

	Technical Source of Information	Amplification
E T	Specifications	These are precise details of requirements, presented in text or diagram, using standard symbols and terminology. Must be used before construction begins. Includes, materials, scope of work, instillation process, quality
AR .	Building Regulations	Cover the construction and extension of buildings. Promotes sustainable development. Protect people's health, safety and security in and around buildings
14-1 14-1 1-1	Drawings	Drawings produced to recognised British Standards, 1;1 1;10 for construction details 1;50 and 1;100 for layout and site plans. May be 2D or 3D
EL F	Design Briefs	Is developed by the project designer, outlines deliverables and the scope of the project.

Unit 3 Constructing the Built Environment

3.2 Planning and Organising work.



Unit 3 Constructing the Built Environment

3.3 Identifying Resource Requirements. Tools, Equipment and PPE



Unit 3 Constructing the Built Environment

3.3 Identifying Resource Requirements. Materials



Unit 3 Constructing the Built Environment

3.4 Calculating the Materials Required.



Unit 3 Constructing the Built Environment 3.5 Writing and setting Success Criteria



Success Criteria	Amplification
Levels of tolerance	Increase or decrease from planned cost or time. Deviations from quality and scope. Allowable variations of dimensions, strength, stability mix and performance.
Timescales	Critical success factor for a project is the deadline. Set realistic timescales, Gantt charts, Critical path analysis, resource allocation, millstones, contingencies
Quality	Balance between cost time and quality. Quality defined by, reference to standards, specification of attributes, nominating suppliers.

Unit 3 Constructing the Built Environment

Prepare for construction tasks	Carry out techniques	Removing and disposing of materials	Health and Safety	Evaluating Construction tasks
Undertake preparatory work	Measuring	Aim to minimise waste	Ensure cleanliness and safety of work area	Requirements of the brief
Select and organise materials	marking	Waste reused or recycled	Correct PPE	Improvements?
Check for quality	cutting	No reusable waste handled stored and disposed of properly	Free of hazards	Challenging parts Of project
Check for defects	joining	Shelf life considered	First aid?	Personally - set success criteria
Measuring/marking out	shaping		Area safe ?	Timescale? Quality?
cutting	assembling			Needs of end user including their safety
Setting out	Mixing/finishing applying surface treatments	54		



COMPONENT 1 LIVE THEATRE EVALUATION

Key Terms

Describe - to write what you saw and heard - how actors use theatrical skills.

ANALYSE - to examine in detail by looking at the different elements and to explain it.

EVALUATE - to judge or form an opinion, e.g. explaining what effect was created and how successful it was for the audience.

KNOWLEDGE AND UNDERSTANDING OF THE PLAY

- Context of the play.
- Features of the style and genre of the play.
- The plot
- Characters
- Reviews of the play and production.
- Drama devices used.
- How relationships with other characters on stage were communicated by the actor.
- Stage Design and how the actors used it.

WRITING ABOUT DRAMA

WHAT IS A SPECIFIC EXAMPLE?

WHAT did the actor do?WHEN did the actor do it?HOW did the actor do it?WHY did the actor do it?

Interaction between the actor and other characters?

The outcome for the audience.

THEATRICAL SKILLS?

PHYSICAL SKILLS	VOCAL SKILLS
BODY LANGUAGE	PITCH
POSTURE	PACE
GESTURE	VOLUME
MOVEMENT	TONE
SPATIAL AWARENESS	PROJECTION
JSE OF LEVELS	ACCENT
ACIAL EXPRESSION	INTONATION
EYE CONTACT	TIMING
PROXEMICS	EMOTIONAL
	RANGE
	DELIVERY OF LINES

Component 2 Devised Theatre

STYLE AND PRACTITIONERS

Naturalistic, Epic Theatre, Semi-naturalistic, Abstract, Stanislavski, Brecht, Frantic assembly

GROUP SKILLS

Choral Speech, Choral movement, Counterpoint, Repetition and Echo, Synchronised, movement/ Unison, Canon, Banners, Characterisation, Multirole

DRAMA DEVICES

STILL IMAGE	THOUGHT-TRACK
MONOLOGUE	SPLIT STAGE
CROSS-CUTTING	MIME
PHYSICAL THEATRE	NARRATION
FLASH FORWARD	FLASHBACK
SLOW MOTION	
MARKING THE MOM	ENT

WHAT TYPE OF GROUP MEMBER ARE YOU?

LEADER: you have ideas and are happy to express them. You enjoy being in charge. You may sometimes be frustrated if others aren't following you or disagree with you.

HELPER: you don't usually lead, but you are happy to put forward your ideas and work with others. You may assist Leaders to see their ideas through or encourage others to take part.

PASSENGER: you don't want to lead and you aren't confident about putting your ideas forward. However, you will go along with what the group wants to do.

BLOCKER: you find group work frustrating and you don't positively help the group. You might tend to argue with others, refuse to co-operate or become distracted.

REHEARSAL TECHNIQUES

Character Objectives, hot-seating, Emotional Memory, Improvisation, Character Modelling, Back-story, Research, Internal Dramatic Dialogue

Students must develop their ability to:

- ☺ carry out research
- Output develop their own ideas
- $\ensuremath{\mathfrak{O}}$ collaborate with others
- $\ensuremath{\mathfrak{O}}$ rehearse, refine and amend their work in progress
- analyse and evaluate their own process of creating devised drama
- © realise artistic intention in devised drama

DRAMA	COMPONENT 2 - DEVISED THEATRE RESPONDING TO A STIMULUS					
Frantic Assembly	 What ideas generally come to mind? What does this make you think of? How does the stimulus make you feel? What themes do you associate with your stimulus? Which characters do you associate with your stimulus? Which settings do you associate with your stimulus? 			 What research will you undertake? What did you find out once you had completed research? What do you want to show through your character? What do you want the audience to see about them? What was the initial purpose of your piece overall? What message do you want to show? How do you want your audience to feel? 		
Physical Theatre Company Combines music, movement and text - inter-disciplinary Chair Duets	Movement Gait - the way you walk. Posture - the position you hold you body when standing or sitting. Stance - the way you stand. Body Language - how you express your emotions through your	Expression Facial Expression - showing your character's emotion by using your face. When describing, focus on the eyes, eyebrows and mouth.	Gesture A movement, using the hand, that expresses an idea or communicates meaning. When describing, describe in detail, e.g. "I used a gesture where I outstretched my hand to show I wanted to ignore	Interaction Eye contact (or lack of). Proxemics - the distance between the characters that communicates their relationship/situation.	Voice Pitch - how high or low your voice is. Pace - how quickly you speak. Volume - how loud you speak. Use of pause - pausing before a line of speech.	Audience What effect does this have on the audience? What do you want the audience to see/feel? How do you know your performance was successful? How did the audience react?
Devised Origins	emotions through your body.		show I wanted to ignore the other character."		Tone - showing your character's emotions through your voice.	audiencereact

CONSTANTIN STANISLAVSKI

NATURALISTIC

BERTOLT BRECHT

NON-NATURALISTIC

Stanislavski said that the character should answer the question, 'What would I do if I was in this situation?@. Also known as the 'magic if', this technique means that the actor puts themselves into the character's situation. This then stimulates the motivation to enable the actor to play the role.	Verfremdungseffekt (The V effect OR the alienation effect)	Distancing the audience from becoming attached emotionally to the characters/the narrative by reminding them constantly they are watching a play. This enables the audience to think about the subject(s) and themes of the play and possibly take action rather than just being entertained.
Emotional memory is when the actor finds a real past experience where they felt a similar emotion to that demanded by the role they are playing. They	Breaking the fourth wall	Addressing or acknowledging the audience directly in order to remind them they are watching a piece of theatre.
then 'borrow' those feelings to bring the role to life. The subtext is the actual meaning and motivation behind the lines that are	Gestus	Gestus is a clear character gesture or movement used by the actor that captures a moment or attitude rather than delving into emotion,
spoken and the actions taken.	Narration	Narration is used to remind the audience that what they're watching is a presentation
An objective is the reason for our actions. What are we trying to achieve? The super-objective is an over-reaching objective, probably linked to the overall outcome in the play.		of a story. Sometimes the narrator will tell us what happens in the story before it has happened. This is a good way of making sure that we don't become emotionally involved in the action to come as we already know the outcome.
The information about the character that you start off with and the play as a whole. How old is the character? What's their situation in the play and in relation to the other characters?	Placards	A placard is a sign or additional piece of written information presented on stage. Using placards might be as simple as holding up a card or banner. What;s important is that the information doesn't just comment upon the action but deepens our understanding of it.
Imagine a simple activity like cleaning your teeth and then imagine a husband cleaning his teeth whilst deliberating on how to tell his wife about his mistress. This is a simple illustration of how a physical action can release the necessary emotions.	Non-linear structure	Scenes are episodic, which means they stand alone and are constructed in small chunks, rather than creating a lengthy and slow build of tension. Epic theatre often has a fractured narrative that is non-linear and mumps about in time, including flashbacks/flash-forwards.
The objective of naturalism is to create a performance that is as close to real life as possible. Therefore, settings and characters should realistic.	Spa <u>55</u>	Making jokes/including comedy to stop the audience from connecting emotionally to the characters. The audience will laugh and then question why they laughed.
	 Stanislavski said that the character should answer the question, 'What would I do if I was in this situation?@. Also known as the 'magic if', this technique means that the actor puts themselves into the character's situation. This then stimulates the motivation to enable the actor to play the role. Emotional memory is when the actor finds a real past experience where they felt a similar emotion to that demanded by the role they are playing. They then 'borrow' those feelings to bring the role to life. The subtext is the actual meaning and motivation behind the lines that are spoken and the actions taken. An objective is the reason for our actions. What are we trying to achieve? The super-objective is an over-reaching objective, probably linked to the overall outcome in the play. The information about the character? What's their situation in the play as a whole. How old is the character? What's their situation in the play and in relation to the other characters? Imagine a simple activity like cleaning your teeth and then imagine a husband cleaning his teeth whilst deliberating on how to tell his wife about his mistress. This is a simple illustration of how a physical action can release the necessary emotions. The objective of naturalism is to create a performance that is as close to real life as possible. Therefore, settings and characters should realistic. 	Stanislavski said that the character should answer the question, 'What would I do if I was in this situation?@. Also known as the 'magic if', this technique means that the actor puts themselves into the character's situation. This then stimulates the motivation to enable the actor to play the role.Verfremdungseffekt (The V effect OR the alienation effect)Emotional memory is when the actor finds a real past experience where they felt a similar emotion to that demanded by the role they are playing. They then 'borrow' those feelings to bring the role to life.Breaking the fourth wallThe subtext is the actual meaning and motivation behind the lines that are spoken and the actions taken.NarrationAn objective is the reason for our actions. What are we trying to achieve? The super-objective is an over-reaching objective, probably linked to the overall outcome in the play.PlacardsImagine a simple activity like cleaning your teeth and then imagine a husband cleaning his teeth whilst deliberating on how to tell his wife about his mistress. This is a simple illustration of how a physical action can release the necessary emotions.Non-linear structureImagine a spossible. Therefore, settings and characters should realistic.Spass



W/B 27 th Jan – Electronics			W/B 3 rd Feb – Electronics			W/B 10 th Feb- Composites					
Block diagram	AN ELECTRIC K FILED WITH WA THE KETTLE IS INTO THE ELEC SOCKET. THE 'ON' SWITC PRESSED. : these are	T	PROCESS PROCESS Constraints PROCESS TEA BAGS ARE PLACED IN THE APOT. THE WATER IN THE KETTLE BOILS. THE BOILING WATER IS POURED INTO THE TEA POT AND THE TEA STREWS. S OT SENSOTS	OUTPUT	Process: the A microcontro manufactured perform differ Examples in Amp (Sense Advantage The size of because pr They can be changes to They baye	ese make decision offer is an example that an integrated rent processing fur nclude: 555 tim or circuit) and to s a circuit can be ogramming rep e reprogramme be made withe	Composite materials are made up of different materials which are combined to improve their properties. They can be a combination of natural and synthetic materials but fall into three main categories: • fibre-based composites • particle-based composites • sheet-based composites Fibre-based composites are reinforced with fibres. By mixing resin or concrete with fibres of glass or carbon we get the ability to mould complex shapes, but reinforcing them with the fibres makes them very strong				
50	Console controller buttons, e.g. fire or			 devices, adding to flexibility. Disadvantages They often cost more than traditional integrated circuits. They are therefore not always the best option for simple systems. Programming software and hardware is required. This can be expensive to buy. The language of the system must be learned and this adds to training costs. Outputs: is the response to the input signal and could be light movement or sound 			Composite Materia		aterials	Uses	
PTM/P	PTM/PTB switch jump						Glass-reinforced Glass fibres a plastic (GRP) resin		fibres and	Boats, instrument cases	
switch Toggle	Reed (magnetic)window sensors on alarms, eg windowswitchopens and switch contacts openToggle switchPower switches		Carbon-reinf plastic (CRP)				orced Carbo and r	n fibre esin	Formula 1 car bodies, crash helmets, sports equipment		
Rocker	Rocker switch Light switches		Glass-reinforced Glass fibre				fibre and	Street furniture,			
Tilt swi	Tilt switch To detect if something is no longer level		light, moven			concrete (GF	RC) concr	ete	urban features		
Ser			Output Lamp/ Bulb	Symbol	Use Used to create heat or light	Particle-based composites are made with small par material. By mixing smaller particles of sand with la particles of cement and aggregate, such as stones, a very strong and dense material suitable for buildi		le with small particles of es of sand with larger such as stones, we get uitable for building large			
	Resistance changes depending on the		nding on the	LED	Z	Used as warning lights and	structures.				
Light de le resistor	ependent r (LDR)	amount	amount of light allowing electricity to				standby	Composite	Materia	s	Uses
Thermi	stor	flow an Same a	d turn on a circuit s an LDR, resistanc	e changes	Buzzer Loud		Make simple sound Make more complex, higher	Concrete	Cement, san aggregate	d and Bu	ildings, street furniture
Pressur	Pressure Sensor Detect the pressure of liquids or gasses		speaker Motor	-1,(quality sound Creates movement (fan or vibrate)	Cermet	Ceramic (cer metal (met)	and that un ter	ectronic components at need to operate ider very hot mperatures		





Side view

Knowled	ge Organiser		NCFE CACHE: Level 1-2 Technical Award Health and Social Care					
Content A	rea 3: Legislation, p	olicies and procedures in heal	th and social care	Content Area 4: Human development across the life span				
Legislation: A law, or set of laws that have been passed by parliament.		n action d by an sation. Procedure: An established way of carrying out a policy.		Life Stages: Infancy (0-2 years) Childhood (3-10 years) Adolescence (11-17 years) Early adulthood (18-29 years) Middle adulthood (30-60 years)	Intellectual (Cognitive): the individual's ability to recognise,	Emotional: the individual's ability to develop, manage and express feelings and show empathy for others Infancy: • attachments form	Social: the individual's ability to build relationships and interact with others	
Act The Health and Safety at Work Act 1974 – defines responsibilities for maintaining health and safety at work Health and Social <u>Care Act (2012):</u> defines the planning, delivering and	Policy Health and safety policy Partnership working	Procedure • isk assessment • hand washing • use and disposal of personal protective • equipment (PPE) • disposal of waste and body fluids • security checks: identity and the environment • correct moving and handling techniques • reporting and recording • Report abuse (record keeping/reporting) • Adopt activities	Regulatory and inspection bodies: • Care Quality Commission (CGC): - regulates health and adult social care services • Office for Standards in Education, Children's Services and Skills (Ofsted): regulates education, children's services and schools • The Health and Care	Physical development: the advancement and control of the individual's bodily movements and functions Infancy: can sit can valk Childhood:	 Infancy: learns and responds through senses points to body parts language develops (for example, babbling, single words, range of 200 words) 	with main carer • may develop temper tantrums <u>Childhood</u> : • shows affection for younger children • develops fairness and sympathy for others <u>Adolescence</u> : • mood swings are common	Infancy: • waves 'bye-bye' • communicates by smiling • can become wary of strangers Childhood: • willing to share toys • can enjoy team games	
monitoring of healthcare services Equality Act 2010– ensures an individual's characteristics are protected age, disability, gender reassignment, marriage and civil partnership, pregnancy and matemity, race, religion or belief, sex, sexual orientation	Equality and diversity equality and inclusion policy	inclusive practice which promotes: • a person-centred approach • dignity • respect Equal access which ensures: • non-discriminatory practice • barriers to access faced by the individual are overcome • adaptations to environment are put in place to meet the individual's needs and preferences • oids and equipment are secured to meet the individual's needs and preferences • valuing diversity – which celebrates individual differences: values, beliefs, traditions	Professions Council (HCPC): register of health and care professionals • Nursing and Midwifery Council (NMC): register of those who can practise nursing and midwifery • Social Work England: register of those who can practise social work Key role of regulatory bodies: • uphold standards • ensure public confidence • register services	 can stand on one leg can ride a tricycle cut along a line legible handwriting confident at handling large equipment during sports greater coordination and speed when carrying out fine and gross motor skills <u>Adolescence:</u> puberty and sexual maturity reached muscle mass increase 	responds to simple commands Childhood: develops pre-reading then reading skills problem solves gives reasons for actions talks with increasing fluency and confidence Adolescence: develops complex thinking skills memory functions efficiently	 development of more intimate relationships can become self- conscious influenced by views, opinions and behaviours of friends (peer pressure) Early adulthood: stress due to work, finances and relationship problems emotional bonds may form with partners and 	often has a 'best friend' Adolescence: increasing independence from parents friendships become very important Early adulthood: relationships form with people from work friends and social relationships often change	
Data Protection/General Data Protection Regulation 2018 (GDPR) – data protection and privacy on how personal data is used and stored	Data protection policy Confidentiality policy	Share information with consent Store information safely Share information on a 'need to know' basis Store information in a locked filling cabinet. Enurse files are password protected o reporting and recording: -timely -lactual -lagible	services o protect the individual Roles and responsibilities of the practitioner : • understand the related legislation, policies and procedures	 changes in body shape and height Early Adulthood: full height is reached body strength at maximum Midale Adulthood: menopause occurs loss and greying of hair muscles start to lose strength Late adulthood: decline in mobility visual and hearing degeneration loss of bone density 	 has ability to think, reason and make choices Early adulthood: application of analytical skills to work environment or home becomes more established in the 	own children <u>Middle adulthood:</u> • changes in relationships • feelings of loss when children leave home • period of self-doubt and mid-life crisis <u>Late adulthood:</u> • loneliness due to isolation • less anxiety in life due to no work pressure • self-esteem and confidence may decrease • anxiety over reduced	Middle adulthood: • relationships with grandchildren are important • friendships continue from school, through work and outside	
Care Act (2014): Local Authority have a duty to promote an individuals well-being (physical, emotional, social and economic) Continuity of care must be provided Individuals to be safeguarded	Safeguarding Duty of Care	Reporting and recording	adhere to the underpinning policies and procedures work within own professional boundaries understand how to escolate any concerns allow for access to quality health and social care services		workplace <u>Middle adulthood:</u> • cognitive thinking begins to decrease • has a range of life experiences which may affect their future <u>Late adulthood:</u> • short-term memory loss • dooling in attention and		Late adulthood: • can develop new relationships through new interests • isolation due to lack of social contact in the workplace	
	Key words: Legisla	tion, Policy, Procedure, Governance, Eligibility			 decline in altention span 	income and care costs	·	





Standards and ratings: You will need to be able to know the importance of standards and ratings within the hospitality and catering industry, they are hotel and guest house standards, and restaurant standards.

Hotel and guest house standards

Hotels and guest houses standards are awarded and given star ratings. You should know what criteria is needed to be met for an establishment to receive each star rating.

<u>Star rating 1</u> = Basic and acceptable accommodation and facilities. Simple rooms with no room service offered.

<u>Star rating 2</u> = Average accommodation and facilities, a small establishment, and would not offer room service or have a restaurant.

<u>Star rating 3</u> = Good accommodation and facilities. One restaurant in the establishment, room service available between certain hours, and Wi-Fi in selected areas are provided. The establishment could have a pool and gym.

<u>Star rating 4</u> = Very good accommodation and facilities. Large hotel & reception area of a very good standard. Certain hours of room service, with a swimming pool and valet parking offered.

<u>Star rating 5</u> = Excellent standard of accommodation, facilities, and cuisine. Offer valet parking, 24 hr room service, spa, swimming pool, gym, and concierge service.

Restaurant standards

Restaurant standards have three main possible awards or ratings that you should know. They are listed below:

AA Rosette award

Ratings between one and five rosettes could be awarded based on the following:

- · different types and variety of foods offered
- quality of the ingredients used
- · where the ingredients are sourced
- · how the food is cooked, presented and tastes
- skill level and techniques used as well as the creativity of the chef.



https://www.stirkhouse.co.uk/about-us/awards/ attachment/award-rosette

Michelin star

A rating between one and three Michelin stars could be awarded based on the following:

- quality of ingredients used
- · cooking and presentation techniques
- · taste of the dishes
- standard of the cuisine
- value for money.



Good food guide

A rating between one and 10 could be awarded based on the following:

- cooking skills
- quality of ingredients
- · techninques and cooking skills shown.

Level 1/2 Hospitality and Catering Knowledge Organiser: Unit 1: 1.1.1 -Types of Hospitality and catering provisions



Hospitality and catering providers

You must understand, be able to name, and explain the two different provisions in hospitality and catering. Commercial: the business aims to make profit from the hospitality and catering provision that they provide. Non-commercial: the service provider doesn't aim to make a profit from the service they provide.

Non-commercial (residential)

Commercial (residential): meaning the hospitality and catering provision aims to create a profit from the service they provide, but also offers accommodation.

Commercial (residential)

For example:

- hotels, motels & hostels
- B&B, guest houses and Airbnb
- holiday parks, lodges, pods, and cabins
- campsites and caravan parks.

Non-commercial (residential): the hospitality and catering provision offers accommodation but does not aim to make a profit from the service they provide.

For example:

- hospitals, hospices, and care homes
- armed forces
- prisons
- boarding schools, colleges, and university residences.

Commercial (non-residential)

Commercial (non-residential): catering establishments that aim to make a profit from their service, but no accommodation is provided.

For example:

- restaurants and bistros
- cafes, tea rooms and coffee shops
- takeaways
- fast food outlets
- · public houses and bars
- airlines, cruise ships, long distance trains
- pop up restaurants
- · food and drink provided by stadiums, concert halls and tourist attractions
- mobile food vans and street food trucks
- vending machines.

Non-commercial (non-residential)

Non-commercial (non-residential): catering establishments with no accommodation provided and don't aim to make a profit from their service.

For example:

- · schools, colleges, and universities
- meals on wheels
- canteen in working establishments (subsidised)
- charity run food providers.

Level 1/2 Hospitality and Catering: Unit 1-1.1.1 -Types of service in commercial and non-commercial provisions



Types of service in commercial and non-commercial provision

You need to be able to understand and know the different types of service within commercial and non-commercial provision. They are split into two main categories of food service and residential service.

Food service

The different types of food services in the catering sector are listed below. You should know the meaning of each one and be able to provide examples. For instance;

Table service

- Plate: the food is put on plates in the kitchen and served by waiting staff. Good portion control and food presentation consistent.
- Silver: a waiter will transfer food from a serving dish to the customer's plate using a silver spoon and fork at their table.
- Banquet: a range of foods suitable for large catered events such as weddings, parties, or award ceremonies.
- Family style: the food is placed on serving bowls on the customer's table for customers to share between them.
- Gueridon: is served from a trolley to the customer's table, the food is then cooked and/or finished and presented in front of the customer. Creates an atmosphere of sophistication and entertainment.

Counter service

- Cafeteria: all types of food and drink are shown on a long counter for customers to move along with a tray for them to choose what they want to eat.
- Fast food: the food and drink is displayed on a menu behind the counter, often with pictures. Quick, simple, and usually served with disposable packaging.
- Buffet: a range of foods served on a big serving table where customers walk up to collect their plate and help themselves to food and drink. The food can be hot or cold, and some items could be served by waiting staff.

Personal service

- Tray or trolley: the meals are served on trays from a trolley and customers sometimes order items in advance.
- Home delivery: the customer's order is made over the phone or online, and is then delivered by the business to their address.
- Takeaway: food that's cooked by the business onsite and then eaten elsewhere.

Residential service

Listed below are the different types of residential types of service in the hospitality and catering sector. You should know the different types of service offered in various hospitality provisions.

Rooms:

- single/ double/ king/ family
- suite (en-suite bath/ shower room, shared facilities).

Refreshments:

- breakfast/ lunch/ evening meal
- 24-hour room service/ restaurant available.

Leisure facilities:

- spa
- gym

.

swimming pool.

Conference and function facilities:

- large rooms
- · overhead projector and computer
- pens and paper provided
- refreshments available.



Level 1/2 Hospitality and Catering: Unit 1-1.1.2 wjec eduqas cbac Types of employment roles and responsibilities within the industry Types of employment roles and responsibilities within the industry There are four main areas within the industry that you should know the roles and responsibilities within. They are listed below: Front of house Kitchen brigade . Front of house manager: oversees all staff at the restaurant, provides training, . Executive chef: in charge or the whole kitchen, developing menus and hiring of staff, and ensures good customer service. overlooking the rest of the staff. . Head waiter: oversees the waiting staff of the restaurant in high-end eating . Sous-Chef: the deputy in the kitchen and is in charge when the executive chef establishments. isn't available. . Waiting staff: greets customers, shows them their table, takes food and drink . Chef de partie: in charge of a specific area in the kitchen. orders from customers, and serves them their order. Makes sure customers' . Commis chef: learning different skills in all areas of the kitchen. Helps every needs are met, and that the food order is made correctly. chef in the kitchen. . Concierge: advises and helps customers with trips and tourist attractions. . Pastry chef: prepares all desserts, pastry dishes and bakes. Books taxis for customers and parks customer cars. • Kitchen assistant: helps with the peeling, chopping, washing, cutting of . Receptionist: takes bookings, deals with questions and complaints from ingredients, and helps washing dishes and stored correctly. customers, checks-in customers, takes payment, and provides room keys. Apprentice: an individual in training in the kitchen and helps a chef prepare and . Maître d'hôte: oversees the service of food and drinks to customers. They greet . cook dishes. customers, check bookings, reservations, and supervise waiting staff. . Kitchen porter/ plongeur: washes the dishes and other cleaning duties. Housekeeping Chambermaid: cleans quests' rooms when they leave, and restocks products Food and beverage: responsible for the provision of food and drink in the . . that have been used, they also provide new bedding and towels. establishment which will include breakfast, lunch, dinner, and conferences, . Cleaner: cleans hallways and the public areas of the establishment. • Housekeeping: ensuring laundering of bed linen & towels, ordering of cleaning Maintenance: repairs and maintains the establishment's machines and products and overseeing housekeeping staff duties. . equipment, such as heating and air conditioning. These responsibilities could • Marketing: promotes events and offers to increase custom at the establishment, also include painting, flooring repair or electrical repair. and is responsible for the revenue of the business. . Caretaker: carries out the day to day maintenance of the establishment.

Level 1/2 Hospitality and Catering: Unit 1-1.1.3 -Working conditions in the hospitality and catering industry





Types of employment contracts and working hours

You need to know the following types of employment contacts and working hours.

- <u>Casual</u>: this type of contact could be provided through an agency and used to cover employees that are absent from work due to illness. There is no sick pay or holiday entitlement with this type of employment.
- <u>Full time (permanent)</u>: working hours including start and finishing times are fixed and stated in this type of contract. A contact of this nature allows the employee to have sick pay and holiday entitlement.
- <u>Part-time (permanent)</u>: working hours mean that the employee works on certain days of the week. Work times are stated in the contract, including the starting and finishing times that are fixed in this type of contract. The employee has sick pay and holiday entitlement in this type of contact.
- <u>Seasonal</u>: this type of contract is used when a business needs more staff due to busy times throughout the year, such as the Christmas period. The contract will state for the employee to work for a specific time frame only. Also, the contract would not expect further or regular work after the contact is complete.
- Zero hours contract: this type of contact is chosen between the employer and the employee. This means that the employee can sign an agreement to be available for work when the employer needs staff. No number of days or hours is stated in the contract and the employer doesn't require to ask the employee to work, and neither does the employee have to accept the work offered. No sick pay or holiday entitlement is offered for this type of contract.



Pay and benefits in the industry

The following pay and benefits are what you should be aware of in the industry.

- <u>A salary</u>: this type of pay is a fixed amount of money paid by the employer monthly, but is often shown as an annual sum on the contract.
- Holiday entitlement: employees are entitled to 28 days paid a year. Part-time contracts are entitled less depending to their contract hours.
- <u>Pension</u>: on retirement age, an employee qualifies for a pension contribution by the employer and the government.
- **Sickness pay:** money paid to the employee with certain contracts when they are unable to go to work due to illness.
- **Rates of pay:** national minimum wage should lawfully be offered to all employees over 18 years of age. This rate is per hour and is reviewed each year by the government.
- **Tips:** money given to an employee as a 'thank you' reward for good service from the customer.
- **Bonus and rewards:** given from an employer to the employee as a way of rewarding all the hard work shown from the employee throughout the year, and helping make the business a success. Also known as remuneration.

Working hours

The working hours directive in the UK states that employees on average cannot work more than 48 hours which is worked out over a period of 17 weeks. Employees can choose not to follow this and work more hours if they want to.

People under the age of 18 cannot work more than eight hours a day and 40 hours a week.

Employees that work six hours or more a day must have a break of 20 minutes, and have the right to have at least one day off every week.

Level 1/2 Hospitality and Catering: Unit 1: Food related causes of ill health (AC4.1)

contains ingredients fit for human consumption and is labelled truthfully.



Food related causes	Intolerances		Food poisoning bacteria	3
health could be caused by any of he following: bacteria allergies intolerances chemicals such as: • detergent and bleach • pesticides and fertilisers.	Some people feel unwell when they eat certain foods. Common foods that cause intolerance include: • milk (lactose) • cereals (gluten) • artificial sweeteners (Aspartame) • flavour enhancers (MSG).	 The main causes of food Bacillus cereus: found Campylobacter: found unpasteurised milk. Clostridium perfringe poultry and meat. E-coli: found in raw me Listeria: found in pollu Salmonella: found in r Staphylococcus aure 	poisoning bacteria are: d in reheated rice and other sta d in raw and undercooked poul ens: found in human and anima eat, especially mince. Ited water and unwashed fruit a raw meat, poultry and eggs.	archy foods. try and meat and al intestines and raw and vegetables. mouth.
Food a	nd the law		Food allergies	
Food can cause ill-health if it is stored, pr person unknowingly eats a food that they catering provision need to follow laws tha Food Labelling Regulations (2006):	epared and/or cooked incorrectly or if a are allergic or intolerant to. All hospitality and t ensure food is safe to eat. They are: A label must show all ingredients including	An allergy is a reaction to the reaction can lead to d Common allergens includ	something found in food. In the eath. e:	e case of a severe allerg
allergens, how to store and prepare the	e food, where it came from, the weight of the	Cereals	Eggs	Seeds
Food Safety (General Food Hygiene	Regulations) 1995: This law makes sure	Soya	Fish and shellfish	Strawberries
way. The HACCP system is used through	ighout the hospitality and catering sector.	Peanuts	Wheat	Milk and dairy
 Food Safety Act 1990: This law make 	s sure that the food people it is safe to eat,	Celery	Tree nuts	Mustard

MUSIC

Baroque Concerto Grosso

A **BAROQUE CONCERTO GROSSO** is an instrumental form involving two groups of performers: the **CONCERTINO** (or Concertante) featuring a small group of soloists accompanied by an orchestral accompaniment called the **RIPIENO**.

1600-1750

Harmony & Tonality

All Baroque Concerto Grossos have a **CONTINUO** part – an accompaniment which "fills in the harmonies and texture" played by the **HARPSICHORD** (or Organ) (playing **CHORDAL HARMONY** from **FIGURED BASS NOTATION**) with the **CELLO** or **BASSOON** doubling the Bass Line. **MODULATIONS** (changes of key) tended to go to the Dominant key or to the Relative minor of the original key. Tonality was mainly **DIATONIC** and in either clear **MAJOR** or **MINOR** tonalities.

Form & Structure	
THREE MOVEMENTS – contrasted by TEMPO and a single mood or style within each movement. Mo	ovements in

astaa			RITORNELLO FORM began with a		
1 st Movement	Ritornello or a Fugue	Brisk and purposeful	TUTTI section which featured a		
	Da Capo Aria or	Slow and song-like	IOTH Section which reatured a		
2 nd Movement			THEME . Between appearances of		
	Ternary Form	often dotted rhythms	this Pitornollo Thoma camo		
3 rd Movement	Ritornello or a Eugue	Fast and Cheerful			
0			EPISODES (contrasting sections).		

Sometimes feature a short CADENZA section towards the end of the first movement (unaccompanied).

Rhythm, Tempo & Metre		<u>Texture</u>	<u>Dynamics</u>		Melody		
The three movements of a Baroque	he three movements of a Baroque Mainly POLYPHONIC or TE		TERRACED DYNAI	MICS – clear dynamic	Melodies are decorated and embellished with ORNAM		
Concerto Grosso were contrasted CONT		JNTAL textures –	contrasts achieve	d by the whole orchestra	(often by performers) e.g. trills, turns, mordents and gro		
in TEMPO – Fast-Slow-Fast – with a	complex and interweaving of parts,		changing the volu	me suddenly (rather than	notes such as acciaccaturas, which make melodies sou		
consistent tempo within each	though some HOMOPHONIC		Crescendos or Dir	Crescendos or Diminuendos). No building up "busy". Melodies often long and flowing and us		s often long and flowing and use SEQUENCES	
movement. Dotted Rhythms were	MELODY & ACCOMPANIMENT		or fading down of volume in Baroque (a musical phrase that is re		that is repeated at a different pitch either		
often a feature of the	sections for musical contrast.		Concerto Grossos.		going up or down) and IMITATION (where one instrumental		
slower/second movements.					part is copied (im	itated) by other instruments.	
Soloists		Soloists vs. Orchestral A	ccompaniment	Venue		Baroque Concerto Grosso Composers	

The Baroque Concerto Grosso is a work for two or more soloists. The soloists (**CONCERTINO** –meaning "little ensemble") were the "stars of the show" and performed demanding and technically difficult parts. Soloists vs. Orchestral Accompaniment The soloists were always "in the spotlight" but sometimes performed with the accompanying orchestra in **TUTTI** sections. Musical contrast between sections is important.

Baroque Concerto Grossos were performed either in churches, opera houses or small salons (rooms) or courts of wealthy individuals.





Instrumentation – Typical Instruments, Timbres and Sonorities

The orchestra used for a Baroque Concerto Grosso was split into two sections: the **RIPIENO** (the main orchestra who provided the accompaniment and less technically-demanding parts) and the **CONCERTINO** (or Concertante) who were the Soloists/Solo Section. The instruments used within the **CONCERTINO** of a Baroque Concerto Grosso can include: Violin, Cello, Recorder, Flute, Oboe, Bassoon, Trumpet and Lute.

The **BAROQUE ORCHESTRA** typically numbered between 10-30 players. The main and largest section was the **STRINGS** (1st and 2nd *Violins, Violas, Cellos and Double Basses*) who played most of the 'main melody'. A small **WOODWIND** section could consist of 2 Wooden Flutes, 2 Oboes and 2 Bassoons. The **BRASS** section may feature 2 "Natural" Trumpets and 2 Horns and the **PERCUSSION SECTION** featured only **TIMPANI** which were used only for dramatic effects. The **CONTINUO** player led and directed the Baroque Orchestra from the Harpsichord (no conductor).

in either clear MAJOR or MINOR tonalities.

Texture

Baroque Solo Concerto

(or Organ) (playing CHORDAL HARMONY from FIGURED BASS

NOTATION) with the CELLO or BASSOON doubling the Bass Line.

Harmony & Tonality All Baroque Solo Concertos have a CONTINUO part – an accompaniment

which "fills in the harmonies and texture" played by the HARPSICHORD

MODULATIONS (changes of key) tended to go to the Dominant key or to

the Relative minor of the original key. Tonality was mainly **DIATONIC** and

The three movements of a Baroque Solo Concerto were contrasted in TEMPO – Fast-Slow-Fast – with a consistent tempo within each movement. Dotted Rhythms were often a feature of the slower/second movements.

Rhythm, Tempo & Metre

Soloists

The Baroque Solo Concerto is a work for a single solo instrument. The soloist's parts were often very technically difficult with a chance for the solo performer to "show off" their technical ability and skill.



sometimes performed with the accompanying orchestra in TUTTI sections. Musical contrast between sections became more important than in Concerto Grossos.

The soloist was always "in the spotlight" but

Baroque Solo Concertos were performed either in churches, opera houses or small salons (rooms) or courts of wealthy individuals.

Baroque Solo Concerto Composers

Melody

Melodies are decorated and embellished with **ORNAMENTS**

contrasts achieved by the whole orchestra (often by the soloist) *e.g. trills, turns, mordents and grace notes* changing the volume suddenly (rather than such as acciaccaturas, which make melodies sound "busy". Crescendos or Diminuendos). No building up Melodies often long and flowing and use SEQUENCES (a or fading down of volume in Baroque Solo **MELODY & ACCOMPANIMENT** musical phrase that is repeated at a different pitch either going up or down) and IMITATION (where one instrumental part is sections for musical contrast. Concertos. Soloist vs. Orchestral Accompaniment Venue

Dvnamics

THREE MOVEMENTS – contrasted by TEMPO and a single mood or style within each movement. Movements in

Form & Structure

			D
1 st Movement	Ritornello or a Fugue	Brisk and purposeful	к т
2 nd Movement	Da Capo Aria or	Slow and song-like	-
2 ^m wovement	Ternary Form	often dotted rhythms	 +1
3 rd Movement	Ritornello or a Fugue	Fast and Cheerful	נו בו

The BAROQUE SOLO CONCERTO grew out of the BAROQUE CONCERTO GROSSO in which

a single solo instrument is accompanied by an orchestra.

ITORNELLO FORM began with a **UTTI** section which featured a **HEME**. Between appearances of his Ritornello Theme came **EPISODES** (contrasting sections)

1600-1750

Sometimes feature a short CADENZA section towards the end of the first movement (unaccompanied).

TERRACED DYNAMICS – clear dynamic Mainly **POLYPHONIC** or **CONTRAPUNTAL** textures – complex and interweaving of parts, though some HOMOPHONIC

copied (imitated) by other instruments.





Instrumentation – Typical Instruments, Timbres and Sonorities

The orchestra used to accompany Baroque Solo Concertos was slightly larger than the Baroque Concerto Grosso but typically numbered between 10-30 players. The main and largest section was the **STRINGS** (1st and 2nd Violins, Violas, Cellos and Double Basses) who played most of the 'main melody'. A small WOODWIND section could consist of 2 Wooden Flutes, 2 Oboes and 2 Bassoons. The BRASS section may feature 2 "Natural" Trumpets and 2 Horns and the PERCUSSION SECTION featured only TIMPANI which were used only for dramatic effects. The CONTINUO player led and directed the Baroque Orchestra from the Harpsichord (no conductor). The instruments used as soloists within Baroque Solo Concertos included the Violin, Cello, Recorder, Flute, Oboe,

Bassoon, Trumpet and Lute.
Classical Solo Concerto

During the **CLASSICAL PERIOD**, the Baroque Concerto Grosso went "out of fashion" and Classical composers continued to write **SOLO CONCERTOS** for a <u>single solo instrument</u> with more difficult and technically demanding solo parts (**VIRTUOSIC**), accompanied by a now, much larger and more developed, orchestra.

1750-1820

Harmony & Tonality	Venue	<u>Form & Structure</u>									
SIMPLE HARMONY making use of	Performance spaces were	THREE MOVEMENTS - contrasted by TEMPO and style/mood. RONDO form now popular (ABACADA) where									
mainly PRIMARY CHORDS – I, IV and V .	becoming larger than in the	1 st Movement Sonata Form		Brisk and purp	A is the recurring THEME between						
DIATONIC harmony in either clear	Baroque period due to size of		Ternary or Variation	Slow, lyrical a	and contrasting EPISODES (B, C, D) and						
MAJOR or MINOR tonalities.	orchestras. Recital and	2 nd Movement	Form		SONATA FORM (EXPOSITION,						
MODULATIONS to RELATED KEYS	Concert Halls and Opera		Rondo, Variation Form or Sonata Form	Fast and Chee	DEVELOPMENT, RECAPITULATION,						
(relative major/minor, subdominant	Houses were popular venues	3 rd Movement			erful CODA) now popular. Classical Solo						
major and minor and dominant	for performing Concertos.				Concertos often have long						
major/minor).		orchestral sections before the soloist enters – "delayed entry of the soloist". Movements longer than Baroque.									
Rhythm, Tempo & Metre	Texture	Dy	namics	Melody							
The three movements of a Classical Solo	Busy Baroque Polyphonic	Wider range of Dynai	mics – pp, ff, mp, mf	The melodies in Classical Solo Concertos were LIGHT, SIMPLE							
Concerto were contrasted in TEMPO –	Textures now replaced with	CRESCENDOS and DE	CRESCENDOS or	and ELEGANT and continue to use SEQUENCES and							
Fast-Slow-Fast and style/mood. Some	clearer HOMOPHONIC	DIMINUENDOS now	used showing an	ORNAMENTS (although not as much as in the Baroque period).							
changes of TEMPO for	(MELODY AND	increasing range of d	namics and more	Musical phrases are BALANCED and EVEN (e.g. 4 or 8 bars)							
effect/expression.	ACCOMPANIMENT) textures.	emphasis on expressi	on in the music.	maybe with some	aybe with some QUESTION AND ANSWER phrases.						
	<u>Soloist</u>		Soloist vs. Orchestral A	ccompaniment	Classical Solo Concerto Composers						
CADENZA – became integral to the end of	the 1 st movement (and sometime	es last movement) –	Sometimes the soloist and orchestra								
very difficult and VIRTUOSIC unaccompar	ied sections allowing the soloist t	o show off their perform sections in DIAL		OGUE with each							
technical skill often containing lots of fast	d decorated and	decorated and other. The conductor follows the soloist									
ornamented melodies. Often cadenza sec	to signal to the	signal to the and the orchestra follow the conductor									
orchestra to enter again for the final COD	ised by the soloists	depending on the soloist	Hayon IVIOZART Beetnoven Solo Trumpet, Flute, 27 Solo Piano Concertos Solo Concertos for								
during performance, however, composers	s such as Beethoven wrote cadenz	as out on the score.	INTERPRETATION of the piece (which		Oboe, Bassoon, Violin, and Concertos for Solo Piano and Violin.						
The soloist's part was more technically de	manding and VIRTUOSIC than in I	aroque Concertos. requires rehearsal).			Concertos Flute. "Classical".						
Timpani	Instrumentation – Typical Instruments, Timbres and Sonorities										



As the Harpsichord declined in popularity, Classical composers no longer added **CONTINUO** parts to the orchestral accompaniment and a **CONDUCTOR** was now established to lead the orchestra. The **CLASSICAL ORCHESTRA** grew in size and new instruments such as the Clarinet were added. The **CLASSICAL ORCHESTRA** typically numbered between 30-60 players. The **STRINGS** (1st and 2nd Violins, Violas, Cellos and Double Basses) continued to be the 'main section' playing most of the 'main melody' and contained more players than in Baroque orchestras. The **WOODWIND** now typically featured 2 x **METAL** Flues, 2 x Oboes, 2 x Bassoons, and 2 x **(newly invented)** Clarinets. **BRASS** continued to consist of 2 x Horns and 2 **(now valved)** Trumpets and the **PERCUSSION** continued to feature only the **TIMPANI**. Classical composers wrote Solo Concertos for instruments including the **PIANO** (newly invented and replacing the Baroque Harpsichord), **VIOLIN, CELLO, FLUTE, OBOE, CLARINET** (also newly invented), **BASSOON** and **FRENCH HORN**.

Romantic Solo Concerto

ROMANTIC SOLO CONCERTOS continued to be instrumental works for a **single solo instrument** with orchestral accompaniment but became much more **DRAMATIC** sounding and emotive. Sometimes **DOUBLE CONCERTOS** were written for2 solo instruments.

1820-1900

Harmony & Tonality	Form & Structure									
Harmony continued to be mainly	1 st Movement S		Sonata Form		Allegro – soloist plays virtually throughout		THREE			
DIATONIC but much more use of					Slow, lyrical and song-like, often short and acting mainly as an			MOVEMENTS –		
CHROMATIC HARMONY,	2 nd Movement	Ternary or Variation Form		introduction to the very fast and virtuosic		c finales. Sometimes	(sometimes			
DISSONANCE (clashing notes and					linked to fi	nal movement wit	h a pause.	(Mendelssohn) or		
chords) and ADDED NOTE CHORDS	3 rd Movement	Rondo, Vari	Rondo, Variation or Sonata Form		East and Cheerful			even in just one		
<i>e.g. 9ths</i> to create dramatic effects.						movement (Liszt)				
Rhythm, Tempo & Metre	<u>Texture</u>	Texture		<u>Dynamics</u>		Melody				
Frequent changes of time signature	HOMOPHONIC (MEL	HOMOPHONIC (MELODY AND		Extremes of dynamics common (<i>ppp, fff</i>) and		The regular and balanced phrases of the Classical Concerto		lassical Concerto		
and tempo.	ACCOMPANIMENT) but more		specific EXPRESSION MARKINGS e.g.		were less important with composers giving more freedom		g more freedom to			
	complex than in Classical		espressivo, dolce, appassionato		expression within their melodies which were now often lo		ere now often long			
	Concertos.				and dramatic,		oud and powerful or warm and emotional.			
Soloists (and Articulation)		Soloists vs. Orchestral Accompaniment		Venue		Romantic Solo Concerto Composers				
The soloist's part became even more difficult,		In the Romantic period, the soloist stepped		oped	Many Romantic Solo Concerto		Sec.	100 million		
VIRTUOSIC and technically difficult to play. CADENZA		forward as a "heroic figure" with the			composers were also VIRTUOSO			1 K		
sections continued to allow the soloist to "show off"		orchestra slipping back into a more			PERFORMERS e.g. Franz Liszt,			A A A A A A A A A A A A A A A A A A A		
becoming more complex and difficult with lots of		"subordinate" role, but these changing roles		g roles	Chopin, Clara Schumann and					
MELODIC DECORATION, ORNAMENTATION and FAST		also added to excitement and drama and		nd	Niccolo Paganini (Violin Virtuoso)		Beethoven	Brahms		
SCALE PASSAGE and demanding playing techniques		more "competition" between soloist and		nd	who wrote and performed in		Late Concertos	Violin and Piano Concertos		
particular to the solo instrument e.g. glissandi on the		orchestra. The conductor continues to follow		follow	large-scale public concerts,					
piano, double stopping and harmonics on the violin.		the soloist and the orchestra follows the		ne	subscription concerts and					
Cadenzas were now written out and not improvised by		conductor. The soloist's interpretation of the		festivals. Larger concert halls			N.			
the performer. Soloist often enters immediately (NO		music is now more important due to the		had to be built due to the rise of		Liszt	Mondolssohn			
ORCHESTRAL INTRODUCTIONS) at the start of the 1 st		music being more dramatic and powerful.		the "middle class" concert goer.		Piano Concertos	Solo Violin Concerto			
movement sharing themes with the orchestra.										

Instrumentation – Typical Instruments, Timbres and Sonorities



The Romantic orchestra was large and often contrasted dramatically with the soloist. With the growth of the Romantic orchestra, new **TIMBRES** and **SONORITIES** became available to composers who explored rich and colourful orchestration. The **STRINGS** section was enlarged again, often with the addition of Harps. New instruments were added to the **WOODWIND** section such as the Double Bassoon, Cor Anglais, Bass Clarinet and Piccolo. The **BRASS** section saw Trombones and a Tuba added along with an extra Trumpet and two further French Horns and the **PERCUSSION** section now featured a vast array of Drums, Cymbals, Pitched Percussion and other instruments which could be hit, struck, banged or plucked! There could be between 90-100 players in a Romantic orchestra. Romantic composers wrote Solo Concertos for almost any orchestral instrument, but the **PIANO** and **VIOLIN** continued to be popular choices as solo instruments.

Oxford Cambridge and RSA

YEAR 10 SPORTS STUDIES – SPRING TERM KNOWLEDGE BANK

Cambridge National in Sport Studies





Key components of Individual Performance

- Skills and techniques
 Creativity
- Tactics and strategies or compositional ideas

 Decision making
- Management/maintenance of own performance

Methods to improve Performance

- Progressive practice - Drills
- Fixed Whole practice
 - Part practice
 - Variable practice
 - Altering context

Key components of Team Performance

- Skills and techniques - Creativity
- Tactics and Strategies Decision making
- Awareness of role within the team
 - Contribution to the team

Performance Improvement Measures

- Video analysis
 Quantitative activity trackers
 Monitoring competition results

 Proficiency awards
 Logs of performance
 Video diaries
 - Peer observation







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