Year 10

Knowledge Organiser 1

Autumn Term: 2025-26

Master Copy Name:

Registration Form: 10

Bournemouth School

Knowledge Organiser: Year 10 Autumn Term 1

'Knowledge is power' by Francis Bacon

A knowledge organiser provides you with all the most important knowledge you need for each unit of study this half term. Your aim is to transfer all of this information into your long-term memory so you can use it in your lessons and further expand your understanding of this work.

How to use your knowledge organiser (KO):

- 1. Ensure you have your KO and Homework Learning journal with you at all times in school and when you need to do your homework at home.
- 2. In lessons when you have covered information that appears on your KO, your teacher will ask you to put a tick next to that section. This means that is now added to what you must learn for homework.
- 3. Initially, follow your homework timetable to decide what to revise each evening.
- 4. There are 4 strategies that you can use to revise. They are progressively more challenging so always start with the first in the list.

a. Look Cover Write Check

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. LOOK carefully at the subject and section of your KO you want to revise and try to remember as much as you can. Remember this should be a ticked section.
- iii. Now COVER this information so you can't read it.
- iv. WRITE out what you can remember word for word in your Homework Learning Journal.
- v. CHECK what you have written by comparing it to your KO. Tick each correct word in green pen and correct any errors you have made.
- vi. Repeat this process until you are confident you can remember everything you need.

AIM: You should be able to repeat the information by rote

b. Self or peer quizzing

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. Write out a list of questions you could ask either yourself or a friend about this section of the KO. Write these in your Homework Learning Journal.
- iii. If you are working on your own, cover the KO and write a full answer to each question.
- iv. If you are working with a partner swap books and copy down their questions and have a go at answering them.
- v. Now uncover the KO and with a green pen correct your work.

AIM: You should be able to repeat the information by rote but with a good understanding

c. Playing with words and sentences

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. You now want to check how well you have learnt the information in your KO.
- iii. Definitions look at words that are used in this section. Can you write a definition in your own words?
- iv. Rephrasing can you rewrite the sentences or explanations in your own words?

- v. Summary can you summarise the main points of this section of the KO?
- vi. Synonyms can you write synonyms for key words and ideas?
- vii. New Sentences can you write a sentence that includes the key vocabulary or definitions that you have learnt?

AIM: You should be able to use the information in your KO in a flexible and confident way in your writing.

d. Think it, Link it

- i. This is a technique to use towards the end of the half term when you are revising all of the KO.
- ii. Think of the links or connections between different sections of your KO.
- iii. Write these out in your own words in your Homework Learning Journal.
- iv. Think about the links between a particular section of your KO and what you have learnt in your lessons. Can you expand on this section by linking it to your wider knowledge?
- v. Write this out in your Homework Learning Journal.

AIM: You should be able to link your homework and your lessons to show a confident understanding of the work covered.

Homework Learning Journal

- 1. Always write the subject and the date when you start your homework.
- 2. Always write the strategy that you are going to use for your homework.
- 3. Always use a ruler to underline titles and dates.
- 4. Use a blue or black pen to complete your homework or a pencil if you need to draw.
- 5. Use a green pen to complete corrections of your work.
- 6. You are expected to complete half a side of your Homework Learning Journal each evening as a minimum.

Success Club

You can attend Success Club every Monday to Thursday in room 53 until 5pm. This is a quiet room where you can complete your homework rather than doing it at home. There are also Sixth form helpers and staff who will be there to help you if you need it. You can also choose to work in the Library on a Monday, Tuesday and Thursday until 4:30 and a Friday until 4.

Checking:

Your teachers will check your Homework Learning Journal at least once a cycle. If they are concerned that you aren't doing your homework properly they will offer support and guidance. If you don't respond to this guidance, you will be added to the afterschool Detention where you will be expected to complete your homework.

You can attend Success Club every Monday to Thursday in room 53 or the library to complete homework. Sixth form helpers and staff will be there to help you if you need it. Your teachers will check your Homework Learning Journal at least once a cycle. If they are concerned that you aren't doing your homework properly, they will offer support and guidance. If you don't respond to this guidance, you will be added to the afterschool Detention where you will be expected to complete your homework.

DO NOW tasks:

At the start of every lesson you should expect a Do Now task. This is a low stakes retrieval quiz on what you have learnt so far. If you have completed your homework this should be easy. The aim is to get 100% in each of these. If you miss this target occasionally, don't worry. If it happens regularly your teacher will have a chat and offer you support.

Maths:

Your teacher will set you tasks to complete on Dr Frost Maths. This will be set every week on a Monday and will be collected in and checked on a Friday. If this has not been completed you will be issued a Detention on a Wednesday Lunchtime.

How long should I spend on my homework?

	Key Stage 4							
	Week 1							
Time	Monday	Tuesday	Wednesday	Thursday	Friday			
5 mins	MFL	MFL	Physical	MFL	MFL			
10	Maths	English	Activity	Maths	English			
10	Biology	RS		Chemistry	Physics			
10	Option C	Option D		Option A	Option B			
55	Reading /	Reading /		Reading /	Reading /			
	Revision	Revision		Revision	Revision			
			Week 2					
Time	Monday	Tuesday	Wednesday	Thursday	Friday			
5 mins	MFL	MFL	Physical	MFL	MFL			
10	Maths	English	Activity	Maths	English			
10	Biology	RS		Chemistry	Physics			
10	Option C	Option D		Option A	Option B			
55	Reading /	Reading /		Reading /	Reading /			
	Revision	Revision		Revision	Revision			

- You should spend about 35 minutes revising your KO each day.
- You should spend 25 minutes either reading or revising each day.
- This timetable is a guide. If you want to spend longer revising one subject that you find more difficult and less time on one you find easy, that is your choice.
- We would like you to spend one evening involved in a physical activity. This might be a sports club, a run, a game of football with friends or just a nice walk with the dog. Ask your PE teacher if you need guidance with this. It doesn't have to be on a Wednesday.



Year 10 'An Inspector Calls' Knowledge organiser

An Inspector Calls was written by J.B. Priestley, and was first performed in the UK in 1946. However, it is set in 1912

Characte	rs	~	Key quotations	~
Inspector Goole	Priestley's mouthpiece, advocates social justice, serves as the Birling's conscience Sardonic, omnipotent, righteous, mysterious, imposing, verbose		"Massiveness, solidity and purposefulness." "It's better to ask for the earth than to take it." "One Eva Smith has gone – but there are millions and millions and millions of Eva Smiths and John Smiths still left with us." "Fire and blood and anguish"	
Mr Arthur Birling	Capitalist thinking businessman Arrogant, foolish, ignorant, emasculated		Heavy looking, rather portentous man" "A hard-headed practical man of business" "A man has to mind his own business look after himself"	
Mrs Sybil Birling	Husband's social superior, cold-hearted, believes in personal responsibility. Conformist, remorseless, controlling, deluded, prejudice		 "Rather cold woman her husband's social superior." "It's disgusting to me." "I did nothing I'm ashamed of" 	
Sheila Birling	Naïve, young, spoilt, comes to change and show remorse and pity. Transformative, socialist, empowered, astute, privileged, protected		Heat these girls aren't cheap labour – they're people" Hat least I'm trying to tell the truth. Hwhy – you fool – he knows!" "The point is, you don't seem to have learnt anything."	
Eric	Young, spoilt, forces himself on Eva Smith, drinks, feels regret Reckless, rebellions, socialist, controlled, irresponsible, dualistic, disgraced		 "Not quite at ease half shy, half assertive." "You're not the kind of father a chap could go to when he's in trouble." "You're beginning to pretend that nothing's really happed at all.' 	
Gerald Croft	Politically closest to Birling, engaged to Sheila Aristocratic, evasive, secretive, disingenuous, privileges		"You seem to be a nice well-behaved family" "The hero the wonderful Fairy prince."	
Eva Smith/ Daisy Renton	Never seen in the play. Stands for victims Suffragette, victim, motif of suffering, emblematic, allegorical, vulnerable		"A nice promising life there, I thought, and a nasty mess somebody's made of it." "She had a lot to say – far too much – so she had to go.' 'She went away "to be alone, to be quiet, to remember all that had happened."	

Context					
J B Priestley	and the second second period p				
1912 England	General attitude of those with social and economic sway was towards looking after oneself Work strikes Workers' rights Pre WW1 Suffragette movement Class system				
1945 England	Clement Atlee's Labour party won a landslide election, reflecting a wave of enthusiasm towards communal responsibility Post WW1 and WW2 Social levelling Women's rights Workers' rights Trade unions National Insurance Welfare system NHS				
Class	Pre-First World War, strong distinctions between classes Women subservient Post-Second World War, class distinctions reduced Women earned a more valued place in society Greater desire for social change.				
Titanic	British passenger liner Sank in the North Atlantic Ocean 15th April 1912. 1,500 people died				



Bournemouth School

Year 10 'An Inspector Calls' Knowledge organiser

Dramatic Fo	orm	~
Well-made play	The plot is intricate and complex, action builds to a climax. Concerned with events that happened before the events of the play. Usually ends with a return to order.	
Morality play	Popular during the 15th and 16 th centuries. Taught the audience lessons focussing on the seven deadly sins.	
Crime Thriller	Gripping tale based around a crime. Audience receives clues and must guess what has happened. All is revealed by the climax.	
Three Unities	unity of action: one main plot unity of time: the action takes place over a short period in the real time unity of place: the play takes place in a single location (the dining room). Makes the social message easy to understand.	
Dramatic Device		
Dramatic irony	When the audience know more than the characters for dramatic effect.	
Cliff-hanger	The audience have to wait to find out what happens, even though they have already anticipated it.	
Setting	The Birling's home is described at the start as 'substantial and heavily comfortable, but not cosy and home-like.' The setting reflects the lack of warmth and kindness within the family.	
Proleptic irony/ foreshadowing	When an earlier event gives the audience a clue ("foreshadows") a later event in the play.	
Photograph	The Inspector only shows the photograph to one person at a time. This creates mystery and tension.	
The 4 th Wall	As the Inspector gives his final speech, he breaks the fourth wall and speaks directly to the audience.	
Sounds	Sharp ring of the doorbell interrupts Birling. Forces the audience to make a connection between the Inspector's arrival and Birling's Capitalist ideology	
Lighting	Priestley uses a change in lighting to show the change in atmosphere. 'The lighting should be pink and intimate until the INSPECTOR arrives, and then it should be brighter and harder.	
Dramatic timing	Entrances and exits are placed at dramatic times in the plot to create tension.	
	There is also a time-lapse. Set in 1912, written on 1945 so dramatic irony can be created.	

Themes-a ke	hemes-a key idea that runs throughout the play			
Age and change	Priestley shows how older characters represent an outdated way of thinking. Younger characters represent new attitudes towards caring about others in society.			
Responsibility and Guilt	All of the family are forced to reflect upon how responsible they are for Eva's death.			
Class and gender	Eva Smith's position in society is weakened because she is from a lower class background and she is also a woman. Biases related to class and gender mean that certain characters are dismissive and treat others in a derogatory manner.			
Capitalism verses socialism	Socialism is an approach to economic and social systems and is characterised by social ownership, democratic control, and high levels of equity. Capitalism is where factors of production are privately owned by private groups or individuals.			
Social responsibility	Priestley wanted his audience to be responsible for their own behaviour and responsible for the welfare of others			
Hypocrisy	The hypocrisy of middle-class Edwardian society is uncovered: appearance and reputation matter more than reality & morality.			

Plot s	Plot structure	
Act 1	Set in April 1912. The Birling family and Gerald Croft are celebrating Sheila Birling's engagement. Inspector Goole arrives and say he is investigate the death of a young woman who committed suicide. Mr Birling is shown a photograph of Eva, after initially denying recognising her, he remembers firing her in 1910. Sheila recalls also having Eva sacked about her manner when served by her in a department store. The Inspector reveals that Eva Smith changed her name to Daisy Renton. Gerald reveals he had an affair with Daisy Renton.	
Act 2	Gerald explains that he had an affair with Eva, but hasn't seen her since he ended their relationship. Sheila gives her engagement ring back to Gerald. The Inspector turns his attention to Mrs Sybil Birling, she confesses that she also had contact with Eva, but Eva gave herself a different name. Eva approached a charity chaired by Mrs Birling as she was desperate and pregnant but help was refused by Mrs Birling. She tells Inspector Goole that the father should be held entirely responsible and should be made an example of.	
Act 3	Eric is revealed as the father. He stole money from Mr Birling's office to provide money to Eva. The Inspector delivers his final speech. After he leaves, the family begin to suspect that he was not a genuine inspector. Next, they phone the infirmary to be informed that no suicide case has been brought in. Mr Birling, Mrs Birling and Gerald congratulate themselves that it was all a hoax but his attitude upsets Sheila and Eric. The phone rings. Mr Birling announces to the family that a girl has just died on her way to the infirmary, a police inspector is coming to question them.	

Year

10

Maths

Autumn

Units

9

80

10

Keyword	Definition	Examples
Set Notation	A formal way of representing a solution to an inequality.	$x > 2 \to \{x: x > 2\}$ $x \le -5 \to \{x: x \le -5\}$ $x < 1 \text{ or } x > 8 \to \{x: x < 1\} \cup \{x: x > 8\}$ $-10 \le x < 3 \to \{x: -10 \le x < 3\}$
Factorising	A method which turns an expression into the <u>product</u> of two or more brackets (factors). It is a technique we can use to solve <u>some</u> quadratic equations.	$x^{2} + 9x + 14 \equiv (x+2)(x+7)$ $x^{2} - 6x + 9 \equiv (x-3)^{2}$
DOTS	Difference of Two Squares $a^2-b^2=(a+b)(a-b)$	Factorise $x^2 - 121$: $x^2 - 121 = (x - 11)(x + 11)$
Roots	The roots of a quadratic function are its solutions when it is equated to zero.	The roots of $x^2 + 9x + 14$ are $x = -2$ and $x = -7$ Because $x^2 + 9x + 14 = 0$ $(x + 2)(x + 7) = 0$ So $x + 2 = 0$ or $x + 7 = 0$ $x = -2$ and $x = -7$
Quadratic Expression	Any expression of the form $ax^2 + bx + c$, where a, b, c are numbers.	$x^2 + 8x - 1$ $5x^2 + 9x$ $3x^2 - 4$
Quadratic Formula	A formula for solving any quadratic equation of the form $ax^2+bx+c=0$, used when factorising doesn't work. $x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$	Solving $3x^2 - 6x - 2 = 0$ $x = \frac{6 \pm \sqrt{(-6)^2 - 4(3)(-2)}}{2(3)} = \frac{6 \pm \sqrt{60}}{6}$ $= \frac{6 \pm 2\sqrt{15}}{6} = \frac{3 \pm \sqrt{15}}{3}$
Perfect Squares	Linear expressions raised to a power of 2.	$(x-3)^2$ $(x+1)^2$ $(3x-5)^2$
Completing The Square	Process of expressing $x^2 + bx + c$ in the form $(x + \frac{b}{2})^2 - (\frac{b}{2})^2 + c$	$x^2 - 8x + 2$ = $(x - 4)^2 - 16 + 2 = (x - 4)^2 - 14$
Simultaneous Equations	A pair of equations involving two variables, requiring a common solution. Solved by Elimination or Substiion.	$3x + 2y = 9$ $y = x^2 + 4x - 1$ x - y = 4 $y = 3x + 1$
Elimination	Make the coefficients of one variable the same in both equations, and then either add of subtract the equations to eliminate this variable.	3x + 2y = 9 x - y = 4multiply by 3 $3x + 2y = 93x - 3y = 125y = 21y = 4, 2, x = 8, 2$
Substitution	Substituting an expression for x or y from one equation into the other equation.	$y = x^{2} + 4x - 1$ $y = 3x + 1$ $\therefore x^{2} + 4x - 1 = 3x + 1$ $x^{2} + x - 2 = 0$

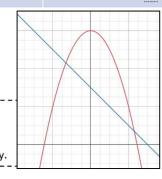
Inequalities are solved in the same way as equations with one careful note:

If you multiply or divide an inequality by a

If you multiply or divide an inequality by a negative number you must change the inequality symbol.

A pair of quadratic and linear simultaneous equations can have up to solutions.

To find the coordinates where two graphs intersect, solve their equations simultaneously.

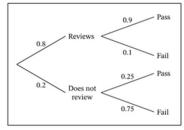


Keyword	Definition	Example(s)
Probability	Defined as number of successful outcomes total number of possible outcomes	$P(5 \text{ on a dice}) = \frac{1}{6}$ $P(\text{tail on a coin}) = \frac{1}{2}$
Sample Space Diagram	Shows all the possible outcomes of two events	
Mutually Exclusive Events	Events that cannot happen at the same time. P(A or B) = P(A) + P(B)	A = Selecting a KING from a pack of cards B = Selecting an ACI $P(A \ or \ B) = \frac{4}{52} + \frac{4}{52} = \frac{8}{52}$
Exhaustive Events	A set of events which include all possible outcomes. The probabilities of exhaustive, mutually exclusive events sum to 1.	A =Rolling an EVEN number on a dice B = Rolling an ODD number on a dice
Experimental Probability	Defined as $\frac{\text{frequency of outcome}}{\text{total number of trials}}$	Rolling a dice 10 times: RESULTS = 5, 3, 6, 3, 2, 4, 1, 5, 5, 1 $P(5) = \frac{3}{10}$
Expectation	Expected number of outcomes = number of trials x probability of outcome	Rolling a dice 20 times, I would expect to land an odd number a total of 10 times. $ {\rm Exp}(Odd) = 20 \times \frac{1}{2} = 10 $
Frequency Tree	Shows two or more events and the number of times they occurred.	
Independent Events	Events that do not affect each others probability of occurring.	Choosing two marbles from a bag one after the other, replacing the first marble before taking the second.
Dependent Events	If one event depends upon the outcome of another event, the events are dependent.	Choosing two marbles from a bag one after the other, NOT replacing the first marble before taking the second.
Probability Tree Diagram	Shows two or more events and their probabilities.	
Conditional Probability	The probability of a dependent event. The probability of the second outcome is dependent/conditional on the first.	Consider 5 blue and 3 red marbles in a bag . Taking 2 marbles out without replacing them: $ P(\text{Red, Red}) = \frac{3}{8} \times \frac{2}{7} = \frac{6}{56} $
Element	An element is a "member" of a set. ∈ means "is an element of"	Set of prime numbers less than 10 = { 2, 3, 5, 7} The numbers 2,3, 5 and 7 are called elements of that particular set.
Universal Set	References all elements being considered. $\boldsymbol{\xi} \ \text{means "} \mathbf{univeral \ set"}$	Consider creating a Venn Diagram of favourite subject from MATHS, ENG or SCIENCE. Asking a year 10 maths class with 31 students in it. $\xi = \text{The } 31 \text{ students in that class}$

Frequency Diagram

Saturday 243 Swimming 88 Sunday 219 Swimming 105

Probability Tree Diagram



Sample Space Diagram

Rolling a dice and flipping a coin:

	1	2	3	4	5	6
н	(H,1)	(H,2)	(H,3)	(H,4)	(H,5)	(H,6)
т	(T,1)	(T,2)	(T,3)	(T,4)	(T,5)	(T,6)

Year

10

Maths

Autumn

 \vdash

Units

11

80

12

Keyword	Definition	Example(s)	Keyword	Definition	Example(s)
Iteration	Iteration means carrying out a process repeatedly	Compound interest is repeatedly multiplying by the same value.	Congruent	Congruent shapes are exactly the same shape and size	All angles and sides lengths are the same
Compound interest	The interest earned each year is added to the money in the account and earns interest the next year.	4% compound interest for n years Amount = initial amount x 1.04°	Congruent Triangles	There are four conditions for two triangles to be congruent SSS – all three sides equal SAS – two sides and the included angle are equal ASA – two angles and a corresponding side are equal	
Growth	When an amount increases	Multiplying by 1.05 increases by 5%		RHS – right angle, hypotenuse and one other side are equal	
Decay	When an amount decreases	Multiplying by 0.85 decreases by 15%	Similar	Two shapes are similar if one is an enlargement of the other	
Compound measures	Combined measures of two different quantities	Speed is a measure of distance and time			
Velocity	Speed in a given direction. Possible units are metres per second (m/s) or kilometres per hour (km/h)	15m travelled in 10s V = 15 ÷ 10 = 1.5m/s	Scale factor	The scale factor is how much the shape has been enlarged by	Scale factor of 3
Density	The mass of a substance contained in a certain volume. Usually measured in grams per centimetres cubed (g/cm³)	40cm^3 of lead has a mass of $450g$ Density = $450 \div 40 = 11.25$ g/cm ³	~	SSS M	
Pressure	The force in newtons applied over an area. Usually measured in newtons per square metre (N/m²) or per	A force of 48N is applied to an area of 12cm ²	ths is l		*

Iteration	Iteration means carrying out a process repeatedly	Compound interest is repeatedly multiplying by the same value.
Compound interest	The interest earned each year is added to the money in the account and earns interest the next year.	4% compound interest for n years Amount = initial amount x 1.04°
Growth	When an amount increases	Multiplying by 1.05 increases by 5%
Decay	When an amount decreases	Multiplying by 0.85 decreases by 15%
Compound measures	Combined measures of two different quantities	Speed is a measure of distance and time
Velocity	Speed in a given direction. Possible units are metres per second (m/s) or kilometres per hour (km/h)	15m travelled in 10s V = $15 \div 10 = 1.5$ m/s
Density	The mass of a substance contained in a certain volume. Usually measured in grams per centimetres cubed (g/cm³)	40cm³ of lead has a mass of 450g Density = 450 ÷ 40 = 11.25 g/cm³
Pressure	The force in newtons applied over an area. Usually measured in newtons per square metre (N/m²) or per square centimetre (N/cm²)	A force of 48N is applied to an area of 12cm ² Pressure = 48/12 = 4 N/cm ²
Direct proportion	When x and y are in direct proportion then $y = kx$ where k is a constant.	
Inverse proportion	When x and y are in inverse proportion then $y = \frac{k}{x}$ where k is a constant.	
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$$Speed = \frac{Distance}{Time}$$

$$Distance = Speed \times Time$$

$$Time = \frac{Distance}{Time}$$

$$Density = \frac{Mass}{Volume}$$

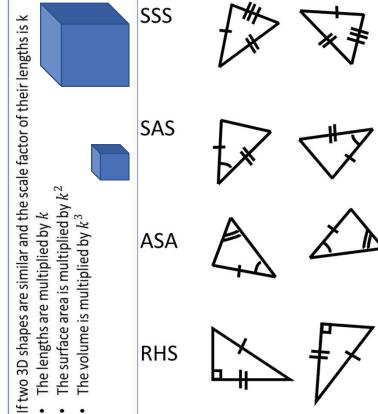
 $Mass = Density \times Volume$

$$Volume = \frac{Mass}{Density}$$

$$Pressure = \frac{Force}{Area}$$

 $Force = Pressure \times Area$

$$Area = \frac{Force}{Pressure}$$



B3 – Infection and response

Keyword	Learn	✓
Pathogen	Micro-organisms that cause infectious diseases in plants and animals. The four types are bacteria, virus, fungus and protist.	
Bacteria	Causes disease by reproducing rapidly inside the body and releasing toxins which damage tissues and make us feel ill.	
Virus	Causes disease by living and reproducing rapidly inside cells, causing cell damage.	
Antibiotic	Drug which cures bacterial disease by killing pathogenic bacteria. Some antibiotics kill specific types of bacteria.	
Painkiller	Used to treat the symptoms of a disease but do not kill pathogens.	
Resistant strain	A bacteria that is not affected by an antibiotic.	
Vector	An organism which carries something e.g. a disease but isn't affected by it.	
Vaccine	Dead or weakened form of a pathogen injected into the body.	
Antigen	Protein on the surface of a pathogen which the body recognises as a foreign body.	
Antibody	Produced by white blood cells in response to antigen. Binds to the antigens on pathogens and helps them be destroyed.	
Lymphocyte	White blood cells that make antibodies.	
Phagocyte	White blood cells that ingest pathogens.	
Monoclonal antibody	Antibody produced by clones of a single hybridoma cell. They are specific to one binding site on one protein antigen.	

Drug	Learn the origin of these drugs.
Digitalis	Heart drug, originally from foxgloves (flowers).
Aspirin	Painkiller, originally from willow trees.
Penicillin	Antibiotic, originally from the Penicillium mould. Discovered by Alexander Fleming.

Disease	Pathogen	Symptoms, Transmission and Treatment	1
Measles	Virus	 Fever and a red skin rash. Can be fatal. Spread through inhalation of infected droplets from sneezes and coughs. Most young children are vaccinated against measles. 	
HIV	Virus	 Initially flu like, can become AIDS when the body's immune system becomes so badly damaged it can no longer deal with other infections or cancers. Spread through sexual contact, exchange of bodily fluids such as blood. Initially can be successfully controlled with antiretroviral drugs. 	
Tobacco mosaic virus	Virus	 A 'mosaic' pattern of discolouration on the leaves which affects the growth of the plant due to lack of photosynthesis. 	
Salmonella	Bacteria	 Fever, abdominal cramps, vomiting and diarrhoea. Spread through bacteria ingested in food prepared in unhygienic conditions. Poultry (chickens and turkeys) are vaccinated against Salmonella to control the spread. 	
Gonorrhoea	Bacteria	 A thick yellow or green discharge from the vagina or penis and pain on urinating. Spread through sexual contact. Can be treated with antibiotics or prevented by the use of a barrier method of contraception (condom). 	
Rose black spot	Fungus	 Purple or black spots develop on leaves, which often turn yellow and drop early. Spread in the environment by water or wind. Can be treated by using fungicides and/or removing and destroying the affected leaves. 	
Malaria	Protist	 Recurrent episodes of fever and can be fatal. Uses the mosquito as a vector. Controlled by preventing the vectors, mosquitos, from breeding and by using mosquito nets to avoid being bitten. 	

B3 - Infection and response

Keyword	Learn	✓
Preclinical testing	Testing done in a laboratory using cells, tissues and live animals.	
Clinical trial	Trial using healthy volunteers and ill patients.	
Efficacy	How effective a drug is.	
Dose	How much of the drug to use and how often.	
Toxicity	A check in drug trials for side effects.	
Placebo	A tablet that does not contain any medicine. (A fake drug.)	
Double blind trial	Both doctor and patient don't know whether the patient is taking the drug or a placebo. Avoids bias in a drug trial.	

Human defence system includes the skin, nose, trachea and bronchi and the stomach.

In the immune system, white blood cells help to defend against pathogens by: phagocytosis, antibody production and antitoxin production.

Vaccination - Learn the 4 stages in the correct order.

- 1. Dead or weakened pathogen injected into the body.
- 2. Stimulates white blood cells to make specific antibodies.
- 3. White blood cells remember how to make the correct antibody for that pathogen.
- 4. If the pathogen re-enters the body, the white blood cells will respond quickly to produce the correct antibodies preventing infection.

Clinical trials – Learn these steps.

Very low doses of the drug are given at the start of the clinical trial.

If the drug is found to be safe, further clinical trials are carried out to find the optimum dose for the drug.

In double blind trials, some patients are given a placebo.

Plant diseases

7 symptoms - stunted growth, spots on leaves, areas of decay (rot), growths, malformed stems or leaves, discolouration, the presence of pests (e.g. aphids).

3 sources of information - reference to a gardening manual or website, taking infected plants to a laboratory to identify the pathogen, using testing kits that contain monoclonal antibodies.

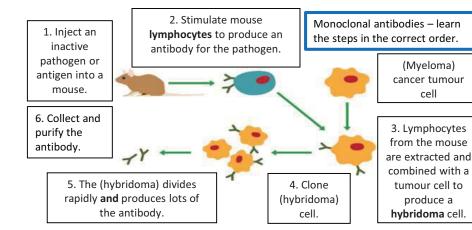
2 types of ion deficiency –

stunted growth caused by nitrate deficiency, nitrate ions are needed for protein synthesis and therefore growth

chlorosis caused by magnesium deficiency, magnesium ions are needed to make chlorophyll

Monoclonal antibodies are used:

- for diagnosis such as in pregnancy tests
- in laboratories to measure the levels of hormones and other chemicals in blood, or to detect pathogens
- in research to locate or identify specific molecules in a cell or tissue by binding to them with a fluorescent dye
- to treat some diseases: for cancer the monoclonal antibody can be bound to a radioactive substance, a toxic drug or a chemical which stops cells growing and dividing. It delivers the substance to the cancer cells without harming other cells in the body.



Chapter 3 – Quantitative Chemistry

Key term	Definition	✓ _	Key equations	
Conservation of mass	No atoms are lost or made during a chemical reaction so mass of products = mass of reactants		Moles = $\frac{\text{mass (g)}}{M_r}$	
Relative atomic mass (A _r)	The relative mass of one atom of a substance, i.e. the big number on periodic table		Moles = concentration (mol/dm³) x volume (dm³)	
Relative formula mass	Sum of the relative atomic masses of the atoms in the numbers shown in the formula		Concentration (g/dm ³) = concentration (mol/dm ³) x M_r	
(M _r)			% yield = <u>actual mass</u> x 100	
Avogadro's constant	Number of particles in one mole of substance $N_{\Delta} = 6.02 \times 10^{23}$		expected mass % atom economy = Mr of desired product x 100	
Mass of one	Numerically the same as the relative formula mass		sum of Mr of all reactants	
mole (g)	eg the mass of 1 mole of CO ₂ = (12+ 16+16) = 44 g		Gas volume (dm³) = moles x 24	
Limiting reactant	The reactant that is completely used up in a chemical reaction and limits the amount of product formed			
reactant	·		Calculating unknown mass or concentration	
Atom economy	A measure of the amount of starting materials that end up as useful products		1. Work out moles of known substance using n= m/M _r or n	= c x v
Uncertainty	The interval within which the true value of a value can be expected to lie.		Use the equation ratio to work out the moles of the unkr substance	nown
			3. Calculate mass or concentration of the unknown substan using $m = n \times M_r$ or $c = n / v$	ice

During a reaction, the mass may appear to increase if one of the reactants is a gas.

magnesium + oxygen → magnesium oxide

Oxygen from the air is added to the magnesium so the product will be heavier in mass.



During a reaction, the mass may appear to decrease if one of the products is a gas.

 ${\tt copper \, carbonate} \xrightarrow{\textstyle \rightarrow} {\tt copper \, oxide} + {\tt carbon \, dioxide}$

Carbon dioxide gas is produced and released into the atmosphere, so the product is lighter in mass.

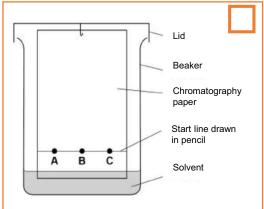


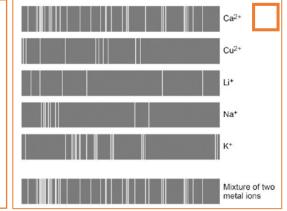
Chapter 8 – Chemical Analysis

Test	Results	1
Flame test: Dip a nichrome wire loop into the substance. Hold the metal loop in a blue flame.	Sodium ion = orange Potassium ion = lilac Calcium ion = orange-red Copper ion = green Lithium ion = crimson	
Sodium hydroxide test: Add sodium hydroxide to the substance	Iron (II) ion = green precipitate Iron (III) ion = brown precipitate Copper (II) ion = blue precipitate Magnesium ion = white precipitate Calcium ion = white precipitate Aluminium ion = white precipitate (dissolves in excess NaOH)	
Halide ion: Add dilute nitric acid and silver nitrate	Chloride = white precipitate Bromide = cream precipitate Iodide = yellow precipitate	
Carbonate ion: Add dilute acid	Effervescence (fizzing). Carbon dioxide gas is produced	
Sulfate ion: Add dilute hydrochloric acid and barium chloride	White precipitate forms. $BaSO_4$ is produced which is insoluble	

Gas	Test	✓
Oxygen	Relights a glowing splint	
Hydrogen	Lit splint makes a squeaky pop noise	
Chlorine	Bleaches damp blue litmus paper	
Carbon dioxide	Turns limewater (calcium hydroxide solution) cloudy	

Key term	Definition	V
Pure substance	Made up of one element or compounds Melt or boil at specific temperatures	
Formulation	A mixture that has been designed for a specific purpose. The components are mixed in carefully measured quantities.	
Chromatography	A technique used to separate mixtures. Separation depends on the distribution of substances between the stationary and mobile phase	
Mobile phase	The solvent which moves up the paper	
Stationary phase	The chromatography paper	
Rf value	<u>Distance moved by substance</u> Distance moved by solvent	

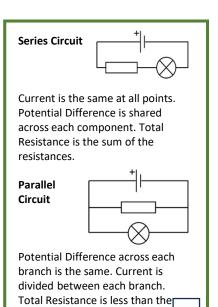




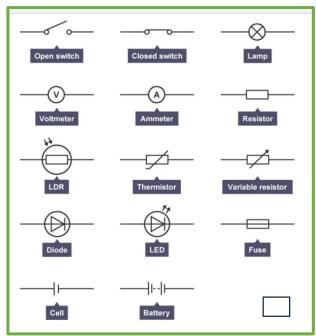
Flame emission spectroscopy – instrumental method		
Method	Sample is put into a flame and light given out is passed through a spectroscope. The output is a line spectrum	
Advantages	Quicker, more accurate, more sensitive	
Application	Can identify which metal ions are present and measure their concentrations.	

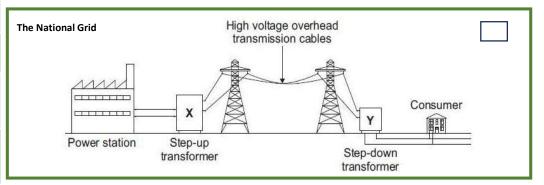
Topic 2 - Electricity

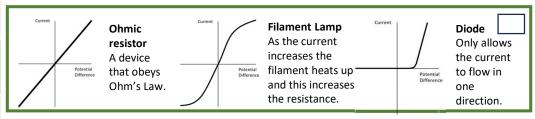
Keyword	Learn	✓
Current, I	The rate of flow of electrical charge measured in amperes, A. 1 ampere = 1 coulomb (of charge) per second.	
Potential Difference, V	The work done (or energy transferred) per unit of charge measured in volts, V. I volt = 1 joule (of energy) per coulomb (of charge).	
Resistance, R	A measure of how difficult it is to get a current to flow through a component, measured in ohms, W.	
Power, P.	The rate at which energy is transferred, measured in watts, W. 1 watt = 1 joule per second.	
Ohms law	The current flowing through a resistor is directly proportional to potential difference and inversely proportional to the resistance. I = V/R	
Series Circuit	A circuit (or section of circuit) where there is only one route for the current to take.	
Parallel Circuit	A circuit (or section of circuit) where the charge can flow through more than one route.	
Alternating Potential Difference	The potential difference alternates between a positive and negative value causing an Alternating Current (AC) that changes it's direction of flow.	
Direct Potential Difference	The potential difference has a constant value causing a Direct Current (DC) that always flows in one direction.	
LDR	Light dependent resistor; A resistor whose resistance depends on the intensity of the light.	
Thermistor	A resistor whose resistance depends on the temperature. Generally, the higher the temperature the lower the resistance.	
Transformer	A step-up transformer increases the PD (and reduces the current). A step-down transformer decreases the PD (and increases the current).	



smallest resistor.







Key equations: $I = Q \div t$, $V = E \div Q$, P = IV $P = I^2R$ V = IR

Keywords	Drawing knowledge - Read, cover, write, review	
Tone	How light or dark something is. Tones could refer to black, white and the grey tones between, or how light or dark a colour appears.)
cross- hatching	A drawing technique where shade or tone are created using crossing lines.)
Hatching	A drawing technique where shade or tone are created using closely-spaced lines.)
Stippling	Dots used instead of lines to build up tone. The size, number and distance between the dots will change the tones created.)
Blending	Blending with your pencil involves rubbing the graphite with either your finger or a smudging tool (tortillon) to achieve a smooth finish.)
Tonal drawing	Drawings that show a full range of tones , or shades, look more realistic. Good tonal drawings will show at least five different shades, smooth blending and no dark edges or outlines.)
•The H range	ncil - Pencils come in a range of hardness: e is hard and light, and useful for design or technical drawings. e is soft and dark, and more suitable for shading and tonal drawings.)

- •B stands for Black and each number indicates the darkness of the pencil, for example 2B is twice as dark as B. 4B is four times darker than B.
- •The H range works the same way 2H is twice as hard as H, 4H is four times as hard.

Shapes and Forms

Drawing

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Sign

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Shapes have two dimensions: length and width examples: square, triangle, circle, etc...

Forms have three dimensions: length, width and depth Example: cube, cone, sphere, etc...





Drawing tools and materials

Drawing materials include:

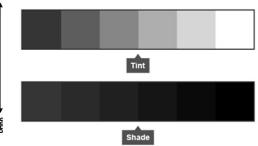
- pencils and coloured pencils
- graphite sticks
- •charcoal
- ballpoint pens
- •fine line and felt tip pens
- drawing ink
- erasers

TONAL SCALES

H F HB B 2B 3B 4B 5B 6B 7B 8B 9B SOFT SOFTER VERY SOFT REGULAR



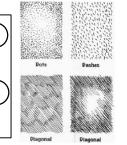
Viewfinder A window to select focus area for a drawing **Composition** The position and layout of shapes / objects on



Mark Making and Texture

Mark Making describes the different lines, dots, marks, patterns, and textures we create in an artwork.

Texture is the way a surface looks or feels. We use different styles of Mark Making to create the impression of different Textures.



Keyword	Read, cover, write, review
Negative space	Every shape takes up space. The space it doesn't take up is called negative space.
Directional shading	Shading in a particular direction to make something appear solid
Proportion	The size and shape of one object in comparison to another
Scale	The different sizes of shapes. Scale refers to the overall physical size of an artwork or objects in the artwork

GCSE BUSINESS

Business Operations

Topic 3.3.1 Production processes

			Methods of	production				
·	ocess in which the factors of production a method is most appropriate for a busines		·		le and business objective	s.		
Method of production	Definition	Advantag	es		Disadvantages		Examples	
Job production	The business produces bespoke, tailor made products that meet the specific requirements of the customer.	o Produ	 Higher prices can be charged Products are likely to be high quality Variety of work increases staff motivation 			ce be skilled and may	 Made-to-measure clothes such as suits Handmade crafts Wedding cakes 	
Flow Production	A business makes large numbers of identical products on a continuous production line.	produced, reducing unit costs o Employees can specialise in a small number of tasks. This is also known o A lack of flexibi be identical or o Employees may			 A lack of flexibility, be identical or fairly Employees may bed 	as all products need to similar	 Chocolate bars Crisps televisions bottled drinks 	
			Efficiency in	production				
Efficiency measure its service. Measured using co	es how well a business uses its resources to st per unit.	o make its p	roducts or provide	Employ The quality	impacted by: ree motivation ality of the suppliers products are made.	2. Skills of the n 4. investment ir	_	
Efficiency in production	Definition		Advantages			Disadvantages		
Lean production	efficiency during the production process, whilst			 Higher productivity. Fewer defective products. Less money spent on storage costs Delays in delivery company 		eld to deal with surges in		
employees responsible for suggesting ways that the business can improve production processes.		As the ideas come from the workers themselves, they are more likely to be simpler, and therefore easier to implement. Increases motivation in staff			, employees need to be nmitted to improving the			
Just in time (JIT)	time (JIT) The business only orders raw materials and makes goods once an order has been placed.		 Less money tied up in stock Less stock that could go out of date will reduce waste JIT reduces costs of production 		discounts if they o	able to use bulk-buy nly buy in small quantities. tionships with suppliers		

GCSE BUSINESS Business Operations

3.3.2 The role of procurement

Methods of stock control				
Method	Definition	Advantages	Disadvantages	The factor of th
Just in time (JIT)	The business does not store any raw materials. Instead, it has regular deliveries that bring only what is needed before its existing raw materials run out.	 Less money tied up in stock that could go out of date or out of fashion. Products are fresher due to frequent deliveries Storage space can be used for other items 	 Unable to use bulk-buy discounts if buying in small quantities. Requires good relationships with suppliers Hard for businesses to react to unexpected changes in demand 	
Just in case (JIC)	Involves producing or purchasing stock with excess, or buffer stock in place.	 Increases the level of customer satisfaction Reduce the chance of running out of stock Benefit from bulk-buy discounts (economies of scale) 	 Buffer stock space requires more storage space at more cost to the business Products kept in stock for a long time may lose their freshness High amounts of cash tied up in stock 	

	Factors affecting choice of suppliers	
Factor	Explanation	
Price	 If a business can get supplies cheaply, this keeps its variable costs low, allowing it to maintain higher profit margins. Cheaper goods may mean lower quality items. 	
Quality	 Quality needs to be consistent. Quality needs to meet customer expectations for price paid – value for money. Customer will associate poor quality with the business, not the supplier. 	
Reliability	 A business needs to be able to trust that their products will be delivered on time, and that suppliers are consistently going to have enough stock available to meet the demands of their customers. 	

	Definitions	
Procurement	Procurement means getting the right supplies from the right supplier, at the right price and at the right time.	300
Logistics	Logistics means making sure the correct products are procured and that they will arrive when needed. Logistics involves three main elements, transportation, storage and distribution.	
Supply chain	The process of developing, sourcing, producing and providing goods and services to consumers. A supply chain can involve working with, and relying on a range of other businesses such as suppliers and shipping companies.	

	Benefits of effective supply chain management	$ oldsymbol{ } oldsymbol{ }$
0	Working with suppliers to ensure that key processes are running efficiently and cost effectively	
0	Getting goods and services for the best price and value	
0	Cut waste and unnecessary costs to create a streamlined process and fast production	
0	More satisfied end consumers, resulting in less complaints and lower returns rates	

1.1 Systems Architecture

Voyavord	Definition	Tick
Keyword	Definition	TICK
Hardware	The physical components that make up a computer system.	
Software	The computer code, programs and algorithms that give instructions to the hardware.	
Central Processing Unit (CPU)	The CPU executes instructions and perform calculations by performing the FE cycle.	
Control Unit (CU)	Controls the flow of data in and out of the CPU. Manages the fetching, decoding and execution of instructions.	
Arithmetic Logic Unit (ALU)	Performs the calculations and logical operations required by programs.	
Von Neumann Architecture	A design for a computer system where data and instructions are both stored in memory.	
Program Counter (PC)		
Accumulator (ACC) Stores the results of calculations made by the ALU.		
Memory Address Register (MAR)		
Memory Data Register (MDR) Stores data that has been fetched from or is waiting to be sent to memory.		
Fetch Execute Cycle (FE Cycle) Decode Fetch Execute		

1.2.1/1.2.2 Primary & Secondary Storage

Keyword	Definition	✓
Primary storage	Memory that the CPU can access quickly.	
Secondary storage	Non-volatile storage where programs and data are kept permanently.	
Volatile	Power is required for the component to retain data.	
Non-volatile	The component retains data even when the power is turned off.	
Random Access Memory (RAM)	у по	
Read Only Memory (ROM)		
BIOS	Used to boot up the computer system after it is turned on. Initialises and tests the hardware for error before loading the operating system.	
Magnetic storage	Magnetic storage Uses different patterns of magnetisation to store data, e.g., hard disk Drive (HDD).	
Optical storage	Optical storage User lasers to read/write data from optical disks, e.g., CDs & DVDs.	
Solid State Storage	Contains no moving parts like RAM but is non-volatile. Includes solid- state drives (SSDs) and USB memory sticks.	

GCSE Design Technology: TIMBER 7.1-2 Sources of timber

Hard Tick **Advantages** Uses wood Birch Veneers for Easy to work plywood with Furniture Even grain Ash **Tool handles** Tough Ladders Elastic Model Jelutong Very easy to cut and shape making Lightweight

Т	ick	Soft wood	Uses	Advantages
		Larch	Cladding on buildingsBoats	Resistant to waterTough

Tick	Man made board	Uses	Advantages
	Chipboard	Inside of kitchen worktopsFlat pack furniture	CheapReadily available

Tick	Property	Definition
	Grain	The fibres which run the length of a tree trunk which gives it its strength. These are the patterns you see on timber.
	Trend forecasting	When manufacturers try to forecast the trends that will occur with a material.
	Impact of logging on communities	When trees are cut down for timber. This brings jobs to the area but it does destroy habitats and people's homes.
	Recycling and disposal	Timber is a natural material that will biodegrade over time.
	Ecological footprint	This is the amount of the environment required to produce goods and services needed to support a particular lifestyle.
	Sustainability of timber	Softwoods are better than hardwoods as they grow quicker so are more readily available. Most forests are now sustainably managed.
	Pollution	Trees absorb CO2 and release oxygen = trees are good for the environment.

GCSE Design Technology **revision**: CORE 1.17 Communication techniques

Method	Explanation
Orthographic projection	3 main sides; plan, front and side are drawn in line with each other.
Exploded drawing	Draws the product disassembled so all parts can be seen.
Assembly drawings	A chronological set of drawings - used to show manufacturers how to make a product.
Schematic diagrams	Electronics - circuit diagrams to show where components are placed.
CAD (Computer Aided Design)	Computer images drawn of products using specialist software.
Annotated sketches	Added to sketches to allow the designer to communicate their thinking i.e. materials etc.
Freehand sketching	Used by designers as initial ideas as they are quick to do.
Cut and paste techniques	Images are used to create and inspire their own ideas i.e. using a mood board.
Oblique	A style of 3D drawing, drawn at 45°.

GCSE Design Technology: TIMBER 7.3 part 1 Selection of timber

Tick Description/links to selecting timber **Environmental** factors Scientists make changes to the DNA of a tree to try and Genetic improve the qualities/characteristics of it for example, engineering make it grow quicker, make it resistant to natural diseases. Seasoning When timber is dried out so it will not warp for its intended use. This elongates the life span and durability of the product. Upcycling When a timber product is given a new lease of life by repurposing it and reworking it for a different function or to have different/more updated aesthetics/form etc.

Tick	Cost factors	rs Description/links to selecting timber	
	Quality of As timber is natural, it can vary in its quality. Timber can have drying defects and others can be very knotty.		
	Manufacturing processes required affect the cos processes product. The designer will use stock forms and stand components bought in so that they do not need to in specialist machinery.		
	Treatments Timber will burn and rot quite easily and quickly. It ca treated with chemicals to reduce this.		

Tick	Social factors	Description/links to selecting timber	
	Different social groups	Groups of people like different products. Designers need to understand what their target market finds appealing and cater towards their wants.	

GCSE Design Technology **revision**: CORE 1.15 Designers and companies

Na	me	What are they known for?
Ale	essi	Kitchenware products – which are fun and unique. A company with lots of different designers.
Ар	ple	Ground breaking designs which broke away from tradition. Have a loyal customer base. Design company.
Heath Stu	erwick dio	Around 200 designers, architects and makers have worked on products from perfume bottles to buildings – original and unique designs.
Joe Ca Hay	•	Fashion designer. Known for original but wearable designs, using traditional English tailoring techniques.
Pix	ar	Among the first to develop computer animated feature films. Design company.
Rayn Loe	nond	Designer. Combined simplicity with functionality. Known for the 'teardrop' design for aerodynamics.
Tesla	, Inc.	Is the leader in producing electric cars which don't compromise on power or quality.
Zaha	Hadid	An architect who integrated geometric forms with expressive, sweeping fluid curves. Promoted architecture as a visual art form for aesthetic pleasure.

Nutrients

Food and drinks provide energy and nutrients in different amounts, they have important functions in the body and people require different amounts during their life.

Nutrients

• Digestion involves different parts of the body, each having an important role.

Energy

Energy is essential for life, and is required to fuel many different body processes, growth and activities. These include:

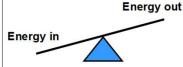
- keeping the heart beating;
- · keeping the organs functioning;
- maintenance of body temperature;
- · muscle contraction.

Different people need different amounts of dietary energy depending on their:

- age;
- gender;
- body size;
- level of
- activity;
- genes.



To maintain body weight it is necessary to balance energy intake (from food and drink) with energy expenditure (from activity).



Energy in > Energy out = Weight gain

Starch- Starches take longer than sugar for the body to digest and so provide a feeling of fullness for longer, helping to avoid over eating and obesity. All starch comes from plant sources, starchy foods should make up one third of our daily diet.- Good sources are Grain products like bread, rice, cereals and pasta and some fruits and Vegetables.

Function of starch in the diet- Broken down into simple sugars in the digestive system to provide energy. It adds bulk to our diet. Gives a feeling of fullness. Anything not used is converted to fat and stored in the body.

Energy from food

- Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with the term calories (kcal).
- Different macronutrients provide different amounts of energy.

	Energy per 1g
Carbohydrate	16kJ (3.75 kcals)
Protein	17kJ (4 kcals)
Fat	37kJ (9 kcals)

Energy requirements vary from person to person, depending on the Basal Metabolic Rate (BMR) and Physical Activity Level (PAL).

Total energy expenditure = BMR x PAL

Body Mass Index (BMI) can be used to identify if an adult is a correct weight for height.

BMI = $\frac{\text{weight (kg)}}{(\text{height in m})^2}$

Recommended BMI range (adults)

Less man 16.5	Underweight
18.5 to 25	Desirable
25-30	Overweight
30-35	Obese (Class I)
35-40	Obese (Class II)
Over 40	Morbidly obese

There are two different types of nutrients:

- macronutrients;
- micronutrients.

There are three macronutrients that are essential for health:

- carbohydrate;
- protein;
- fat.

There are two types of micronutrients:

- vitamins;
- minerals.

Carbohydrate

Free sugars include all sugars added to foods, plus sugars naturally present in honey, syrups and unsweetened fruit juice.

Fibre is a term used for plant-based carbohydrates that are not digested in the small intestine.

Sugars include a variety of different sugar molecules such as sucrose Starchy foods are the main source of carbohydrate for most people and are an important source of energy. We should be choosing wholegrain versions of starchy foods where possible.

Protein

Protein is made up of building blocks called amino acids. There are 20 amino acids found in protein. For adults, eight of these have to be provided by the diet (this is higher in children). These are called essential amino acids, which cannot be made by the human body.

Fat

Sources of fat include:

- saturated fat:
- monounsaturated fat;
- · polyunsaturated fat.

A high saturated fat intake is linked with high blood cholesterol levels which can lead to coronary heart disease.

Essential Fatty Acids (EFAs) cannot be made in the body but are important to the healthy and efficient functioning of the body. They include-**Omega-3:** Found in oily fish, seeds, walnut oil and leafy green vegetables, it helps protect the heart.

Omega-6; found in vegetables, fruits, grains, chicken and seeds. It helps lower cholesterol in the blood.

Micronutrients Vitamins

There are two groups of vitamins:

- Fat-soluble vitamins. A, D, E and K.
 Our bodies can store these vitamins in fat and use them as required so we do not need to consume them every day
- Water-soluble vitamins, e.g. B
 vitamins B1 Thiamin, B2 Riboflavin, B3
 Niacin, B9 folate or folic acid, B12
 Cobalamin and vitamin C Ascorbic
 Acid. Our bodies cannot store these
 and so they need to be consumed on a
 regular basis

Minerals and Trace Elements

Minerals are inorganic substances required by the body in small amounts for a variety of different functions. Examples include: calcium, sodium, iron, phosphorous, fluoride and iodine.

Most micronutrients are mostly provided by the diet. An exception is vitamin D which can be synthesised by the action of sunlight on the skin.

Calcium is essential for a number of important functions such as the maintenance of bones and teeth, Heart regulation, blood clotting and normal muscle function

Sodium is needed for regulating the amount of water and other substances in the body.

Iron is essential for the formation of haemoglobin in red blood cells. Red blood cells carry oxygen and transport it around the body. Iron is also required for normal metabolism and removing waste substances from the body.

Phosphorous combines with calcium to harden bones and teeth. Helps muscle function – energy production- Found in Dairy product, nuts ,meat, fish and other foods rich in calcium.

Fluoride Strengthens teeth against decay.
Can be found in drinking water and Fish.
Iodine Makes thyroid hormones- to control metabolic rate of the body- Fish-milk-dairy.

Key terms

Energy: The power the body requires to stay alive and function.

Digestion: The process by which food is broken down in the digestive tract to release nutrients for absorption.

Macronutrients: Nutrients needed to provide energy and as the building blocks for growth and maintenance of the body.

Micronutrients: Nutrients which are needed in the diet in very small amounts.

BMR- Basal Metabolic Rate- the energy we need just to maintain bodily function each day, approx. 1.1 Cal per minute.

Fibre- There are two types of fibre. soluble and insoluble. Insoluble fibre is indigestible and helps to bulk up and soften our faeces, cleans the bowel as it passes through and helps stave off constipation and therefore also Diverticular disease. Good sources are Some fruits and vegetables, Wholegrains and brown rice Soluble Fibre- Slows down the consumption and digestion of carbohydrates and so helps to control blood sugar levels, this helps us stop feeling hungry and less likely to snack. Soluble fibre may also reduce blood cholesterol levels and so may reduce the risk of heart disease. Good sources include- Oats, peas, beans and lentils and most fruit and vegetables especially if eaten with the skin on.

Sugars- we are advised to eat no more than 30g of sugar each day.

Fibre- Children aged 11-16 should aim to consume 25g of fibre each day.

Salt- We are advised not to consume more than 6g of Salt each day.

Half Term 1

Le règlement scolaire		
Selon les règles	According to the rules	
il faut	you must	
il ne faut pas	you must not	
Il ne faut jamais	You must never	
il est interdit de	it is forbidden to	
il est important de	It is important to	
il est essentiel de	It is essential to	
on doit	You/we must	
avoir le droit de	To have the right to	
harceler	to bully	
tricher dans un contrôle	to cheat in a test	
utiliser son portable en classe	to use your phone in class	
arriver à l'heure	to be on time	
être en retard	to be late	
faire ses devoirs	To do your homework	
manger en classe	To eat in class	
s'asseoir à sa place	To sit in the seating plan	
respecter les autres	To respect others	
écouter le prof	To listen to the teacher	
aller aux toilettes pendant un cours	To go to the toilet during a lesson	

Opinions of school rules	
Quel est ton avis sur les règles?	What is your opinion of the rules?
À mon avis	In my opinion
C'est juste/injuste	It's fair/unfair
C'est trop sévère/stricte	It's too strict
Il faut respecter les autres	You must respect others
Tu es d'accord?	Do you agree?
Oui je suis d'accord	I agree
Non, je ne suis pas d'accord	I disagree
C'est raisonnable	It's reasonable
Je pense que	I think that

Mon uniforme scolaire		
à l'école je porte	At school I wear	
porter l'uniforme scolaire	Wearing school uniform	
un pantalon gris	grey trousers	
une jupe	a skirt	
une veste grise	a grey jacket	
une cravate	a tie	
des baskets	trainers	
une chemise blanche	a white shirt	
un pull gris	a grey jumper	
des chaussures noires	black shoes	
Des chaussettes noires	Black socks	
un short	shorts	

Le directeur/la directrice	The headteacher	
Les élèves	The pupils	
Un problème de	A behaviour	
comportement	problem	
C'est important pour les	It's important for	
examens	the exams	
C'est essentiel pour le	It's essential for	
travail scolaire	school work	
J'ai toujours faim en	I'm always hungry	
classe	in class	
Des manifestations	Protests	
Un risque de	A risk of bullying	
harcèlement		
Refuser de	To refuse to	
En été, il fait trop chaud	In summer, it is too	
	hot	
Le pouvoir	The power	
Partager des vidéos	To share videos	
Des manifestations Un risque de harcèlement Refuser de En été, il fait trop chaud Le pouvoir	Protests A risk of bullying To refuse to In summer, it is too hot The power	

More on rules

Past tense essentials	
L'année dernière	Last year
Récemment	recently
Je suis allé/nous sommes allés	I/we went
Je suis resté/ nous sommes restés	I stayed/ we stayed
J'ai appris	I learnt
J'ai pris	I took
J'ai reçu de bonnes notes	I got good grades

C'était	It was
II y avait	There was/were
II faisait + weather	It was + weather
J'ai fait	I did
J'ai lu	l read
J'ai bu	I drank
J'ai écrit	I wrote
J'ai couru	l ran
Je me suis bien amusé	I had fun
Nous nous sommes bien amusés	We had fun
Je ľai trouvé	I found it
Ce que j'ai aimé le plus	What i liked the
était	most was
Le pire, c'était	The worst thing
	was
Le mieux, c'était	The best thing
	was

Quels sont tes projets pour après les GCSEs?	
Après mes GCSEs/mes examens	After my GCSEs /exams
À l'avenir	In the future
Je ferai mon Bac	I will do my A levels
Je voudrais étudier	I would like to study
une année sabbatique	a gap year
un apprentissage	an apprenticeship

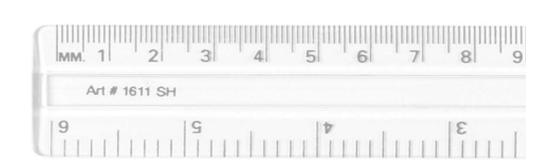


Equipment









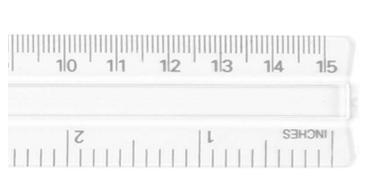
Check





- ID card
- Green and purple pens
- Whiteboard pens
- Black/blue pens
- Glue stick
- Pencil
- Ruler
- Calculator





Quelles matières est-ce que tu étudies?	
j'étudiematières	I study subjects
ma matière préférée est	My favourite subject is
j'apprends	I learn
mon prof préféré est	My favourite teacher is
mon emploi du temps	My timetable
mon jour préféré est le	My favourite day is

Les matières		
le français	French	
l'anglais	English	
le théâtre	Drama	
l'informatique (f)	ICT	
l'EPS (f)	PE/sport	
la musique	Music	
les maths (f)	Maths	
les sciences (f)	Science	

Souvenirs d'école – imperfect tense		
quand tu étais petit tu étais comment?	when you were little, what were you like?	
quand j'étais petit	when I was little	
j'étais/je n'étais pas	I was/I wasn't	
travailleur/travailleuse	hard-working	
l'enfant le plus sportif de la classe	the sportiest child in the class	
j'aimais	I used to like	
je jouais	I used to play/was playing	
je lisais	I used to read/was reading	
je mangeais	I used to eat/was eating	
j'allais	I used to go/was going	
je faisais mes devoirs	I used to do my homework	
je regardais	I used to watch/was watching	

Adjectives		
intéressant (e) (s)	interesting	
utile (s)	useful	
fascinant (e) (s)	fascinating	
inspirant (e) (s)	inspiring	
drôle	funny	
sympa	nice	
passionnant (e) (s)	exciting	
génial	great	
facile (s)	easy	
ennuyeux/euse	boring	
sévère	Strict/harsh	
difficile (s)	difficult	
stressant(e) stressful		

Une journée typique		
les cours commencent à	lessons start at	
le collège commence/finit à	school starts/finishes at	
on n'a pas de cours le samedi	we don't have school on Saturdays	
ils ont cours le samedi	they have school Saturday	
je me réveille	I wake up	
je m'habille	I get dressed	
je me lave	I wash myself	
le me lève	l get up	

Adverbs		
totalement	totally	
extrêmement	extrememly	
trop	too	
vraiment	really	
complètement	completely	
assez	quite	

Opinion structures	
à mon avis	In my opinion
je pense que	I think that
je trouve	I find
je suis fort (e) en	I'm good at
je suis faible en	I'm bad at
j'ai horreur de	I hate
il me semble que	It seems to me that
j'apprécie	I appreciate/like
selon moi	according to me
selon mes amis	according to my friends
pour moi/	Personally
personnellement	
je suis créatif/créative	I am creative
sportif/ive	sporty

Comparatives		
plusque	morethan	
moins que	lessthan	
aussique	asas	

Comparative sentences		
la journée scolaire	the school day is	
est plus courte	shorter	
la pause déjeuner est the lunch break is		
plus longue longer		
qu'ici than here		
qu'au Canada	than in Canada	
qu'en France than in France		
qu'à la Martinique	than in Martinique	

Interesting idioms		
c'est mon kif	it's my 'thing'	
c'est mon truc	it's my 'thing'	

GCSE GEOGRAPHY



Topic 4: The UK's Evolving Physical Landscape



4.1 Geology and past processes have influenced the physical landscape of the UK

A range of processes influence the UK's physical landscapes:

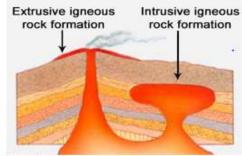
- geology (the study of the structure and substance of rocks),
- past tectonic processes (previous volcanic eruptions and tectonic uplift)
- glacial processes (erosion: plucking - freezing onto the surface and removing sediment, abrasion – embedded sediment scouring the valley floor and sides; weathering: freeze-thaw water freezing into cracks in the rock, expanding and splitting the rock apart
- deposition sediment put down as a glacier retreats creates outwash till in the valley floor, and moraine at the snout and edges of the glacier).

These processes combine to create distinctive characteristics

- **upland** (areas with more resistant igneous and metamorphic rocks, creating Ushaped valleys, hanging valleys and scree slopes)
- lowland landscapes (areas with less resistant sedimentary rocks creating dip slopes and escarpments).

Igneous rocks

They are formed when magma from inside the Earth erupts and cools on the surface of the Earth due to volcanic activity (extrusive rocks); or when the magma cools inside the Earth to form intrusive rock which may be exposed to weather and erosion later.



Examples





Basalt (Giant's Causeway)

Granite outcrops (cheesewring)

- · Pumice (extrusive rock) is used in toothpaste, cosmetic products and cement.
- · Granite (intrusive rock) is used for making gravestones, statues and countertops.
- · Basalt (extrusive rock) is used in the construction of buildings and statues.
- · Gabbro (intrusive rock) is used for flooring, worktops, facing and monumental stones.

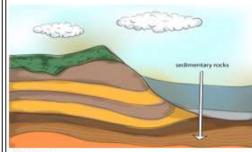
Properties and characteristics

- · Resistant to erosion and weather
- shines when polished

- · Contains empty spaces

Sedimentary rocks

They are formed when sediments get deposited on the bottom of oceans, seas or lakes. These sediments include eroded rocks and skeletons of sea creatures, which build up.



Examples





Limestone (Exeter Cathedral) Sandstone (paving)

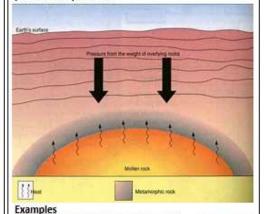
- · Sandstone is used for paving tiles and the construction of buildings and statues.
- Limestone is used in toothpaste, to make building materials and statues.
- Shale can be used as filler in the production of paint, used in brick making and is sometimes used as a road aggregate.

Properties and characteristics

- Quite colourful
- Nice texture
- · Reacts to erosion and weather (reacts with dilute acid)
- · Form in layers or beds

Metamorphic rocks

They are formed when rocks are exposed to lots of pressure and/or heat.







- · Marble (formed from limestone) is used for fireplaces, sculptures, gravestones, work surfaces, chopping boards and ornaments.
- · Slate (formed from clay) is used for roofing, snooker tables, flooring, gravestones and garden
- . Schist (formed from shale or sandstone) is used for flooring and garden decorations

Properties and characteristics

- · Resistant to weathering and erosion
- · Very hard-wearing
- · have a "squashed" (foliated or banded) texture

Human activities are different in **upland** and **lowland** areas, and they create distinctive landscapes.

- Upland areas (less suitable for many human activities due to climates) have settlements which are smaller and found in flat valley bottoms, typically use locally sourced materials, such as slates).
- Lowland areas (more suitable for a wider variety of human activities) have settlements formed on spring-lines of hillsides and along flatter plains.

Topic 4: The UK's Evolving Physical Landscape - COASTS



Types of coastline

Concordant coastlines (rock layers parallel to the coast) have a harder outer layer protecting less resistant rock inland as once broken through, **coves** are created as the softer rock is eroded more rapidly creating a crescent shaped.

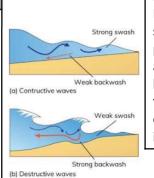
Discordant coastlines (alternating rock types at right angles to the coast) have different erosion rates. This creates **headlands** (areas of harder rock sticking out into the sea) and **bays** (the area of softer rock eroded away).

Types of wave

swash and a weaker backwash. They deposit sediment on the shore.
Constructive waves happen in calm weather and during summer months when waves have less energy.

Destructive waves have a weak swash and a stronger backwash.
They erode sediment from the shore.
Destructive waves happen in poor weather and during winter months when waves have more energy.

Constructive waves have a strong



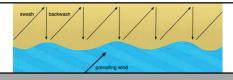
Marine Processes

Erosion is the wearing away of rock along the coastline.

Destructive waves are responsible for erosion on the coastline. There are four types of erosion: hydraulic action abrasion, attrition and solution. Erosional landforms include headlands, bays, caves, arches, stacks, stumps and wave-cut platforms.

Transportation (movement of material by solution, suspension, saltation and traction) and **deposition** (the putting down of material) help to create coastal landscapes of deposition.

For example: **longshore drift** (zig-zag movement of sediment along the beach due to prevailing winds pushing waves and swashing sediment up the beach at an angle, backwash dragging sediment down the beach under gravity). This continues until a change in the direction of the coast forming a spit, bar across an estuary with a lagoon, or a tombolo connecting to an island.

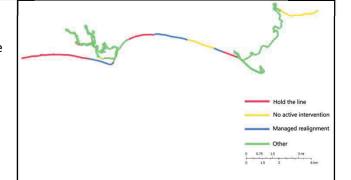


Sub-aerial processes (actions occurring above sea level). They act on the cliff face after the waves have **undercut** the bottom of the cliff.

Mass movement (large scale movement of sediment usually downslope) e.g. rock falls (weathered areas undercut, unsupported areas collapse), slumping (after long periods of rain, which seeps through soil and permeable rocks, where this meets an impermeable rock e.g. clay the saturated rock slumps and slips, often in a rotational matter along a curved surface) and sliding (the movement of a large amount of material along a flat surface e.g. a bedding pain).

Weathering (breakdown of rocks on or near the surface): mechanical (freeze-thaw splitting the rock apart) chemical (salt corrosion and acid rain solution on limestone cliffs), and biological (plants and burrowing animals and nesting birds weaken clifftops and cliff-faces). These processes combine to have an impact on the shape of cliff faces particularly. This again creates a source of beach material (in addition to the riverine and offshore sources).

Christchurch Bay case study



The coastline of Christchurch Bay experiences the full force of waves brought from the Atlantic. These waves have a long fetch, so they are very powerful.

The cliffs on the coastline are made of sandstone and clays, which are easily eroded. This rock type is also very permeable. Water infiltrates easily and saturates the cliffs. Several rivers in the area flow to the coasts through steep sided coastal gorges known as chines.

Decades of erosion has caused the cliff edge to retreat by tens of metres, and now many buildings are very close to the cliffs. In some cases, residential areas may be only several metres away from the cliff edges.

Coastal defences have failed in some areas, and this has led to accelerated erosion in other

this has led to accelerated erosion in other areas.

Poor planning around Barton-on-Sea has created an issue referred to as 'terminal groyne syndrome". This is where groynes trap sediment from one side of the beach whilst starving the other side.

er/sie/man soll

wir sollen

Bournemouth School – Knowledge Organiser – Year 10

lernen - to study/learn		
ich lerne I learn		
du lernst	you learn	
er/sie lernt	he/she learns	
wir lernen	we learn	
ihr lernt	you learn	
Sie/sie lernen you/they learn		

lernen - to study/learn		
ich lerne	I learn	
du lernst	you learn	
er/sie lernt	he/she learns	
wir lernen	we learn	
ihr lernt you learn		
Sie/sie lernen	you/they learn	
Strong verbs in German change the		

ich freue
du freus
er/sie fre
wir freue
ihr freut
Sie/sie fr

sich freuen auf - to look forward to			
ich freue mich auf	l am	looking forward to	
du freust dich auf	you are		
er/sie freut sich auf	he/ she is		
wir freuen uns auf	we are		
ihr freut euch auf	you are		
Sie/sie freuen sich auf	you/they are		

Schulregeln

Strong verbs in German change the vowel in the "du & er/sie/es/man" forms			
fahren (fährst/fährt) to travel			
tragen (trägst/trägt)	to wear		
essen (isst/isst)	to eat		
sehen (siehst/sieht)	to watch		
lesen (liest/liest)	to read		
Verbs with a stem end in -d or -t add an			
extra "e" in ti	hese forms		
finden (findest/findet)	to think/find		

Modal verb: müssen – to have to			
ich muss	I have to		
er/sie/man muss	he/she/one has to		
wir müssen	we have to		
Modal verb: dürfen – to be allowed to			
ich darf (nicht)	ich darf (nicht) I'm (not) allowed to		
er/sie/man darf he/she/one is (not) (nicht) allowed to			
wir dürfen (nicht)	we are (not) allowed to		
Modal verb:	sollen – to ought to		
ich soll	I ought to		

Modal verbs are followed by an infinitive
"Ich muss nicht" means I don't have to
"ich darf nicht" means I'm not allowed to

we ought to

he/she/one ought to

im Klassenzimmer	in the classroom	
im Computerraum	in the computer room	
im Gang	in the corridor	
im Unterricht	during lessons	
in der Bibliothek	in the library	
in der Schule	at school	
draußen	outside	
ruhig/leise sein	be quiet	
laufen	walk/run	
langsam gehen	walk slowly	
plaudern	chat	
Respekt zeigen	show respect	
seine Hausaufgaben vergessen	forget your homework	
Ich denke/glaube, dass	I think/believe that	
Ich bin der Meinung, dass diese Regel ist	I am of the opinion that this rule is	
falsch/richtig	wrong/right	
notwendig/nötig	necessary	
weil ich nicht genug Freizeit habe	because I don't have enough free time	
weil es in der Kantine nicht genug Platz gibt	because there isn't enough room in the canteen	

tense. A part of haben or sein plus a past participle			
Ich habe/er, sie hat/wir haben I/he, she/we			
gespielt/gelernt/ geplaudert/gemacht/ gezeigt/gehört/ gekauft/geschlafen/ gegessen/verbracht	played/learnt/ chatted/did/ showed/listened/ bought/slept/ ate/spent		
Ich bin/er, sie ist/wir sind	I/he, she/we		
gefahren/gegangen/	travelled/went/		

flew/came/

swam/stayed

To talk about actions in the past use the perfect

Important imperfect tense verbs: ich war, er/sie/es war – I was, /he/she//it was wir waren - we were Ich hatte, wir hatten – I had, we had es gab - there was

geflogen/gekommen

geschwommen/geblieben

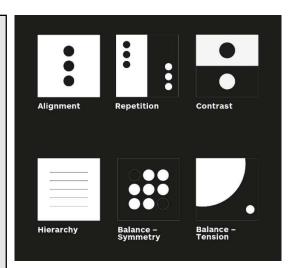
oo gab ahoro waa				
In der Pause – at break				
Was machst du normalerweise in der (Mittags)Pause? What do you normally do in your (lunch) break?				
Ich esse (mein Pausenbrot)/ ich trinke	I eat (my snack)/ I drink			
ich spreche/plaudere mit meinen Freunden/ Freundinnen	I speak/chat to my friends			
Ich verbringe Zeit mit Freunden I spend time with friends				
ich mache Sport/meine Hausaufgaben	I do sports/my homework			
Ich gehe in einen Klub I go to a club				
Ich spiele I play				
Ich habe keine (Mittags)Pause	I don't have a (lunch) break)			
jeden Tag	every day			
letztes Jahr	last year			
gestern	yesterday			
nach der Schule	after school			

Die Sch	ulfächer	Was ist dein Lieblingsfach? What's your favourite subject?		Was trägst du in der Schule?– What do you wear to school?	
Ich lerne Fächer	I study subjects			-	
Geschichte	History, story	Mein Lieblingsfach ist	My favourite subject is	In der Schule trage ich	At school I wear
(Natur)Wissenschaften	Sciences		I like/don't like learning	eine (graue) Hose	(grey) trousers
Kunst	Art	Wie findest du?	How do you find?	ein (weißes) Hemd	a (white) shirt
Mathe	Maths	Welches Fach magst du	Which subject do you (not)	eine (graue) Jacke	a (grey) jacket
Musik	Music	(nicht)?	like?	eine (blaue) Krawatte / einen (blauen) Schlips	a (blue) tie
Deutsch	German	Ich mag + subject, weil	I like because	(k)eine Schuluniform	no/a school uniform
Sprachen	Languages	Ich liebe, weil	I love because	einen (grünen) Pullover	a (green) jumper
 Theater	Drama	einfach/leicht	easy	(schwarze) Schuhe	(black) shoes
Religion	RS	schwer/schwierig	difficult/hard/tough	ein (rotes) Kleid	a (red) dress
Sport	PE, sport	ermüdend/kompliziert	tiring/complicated	ein (gelbes) T-Shirt	A (yellow) t-shirt
		interessant/langweilig	interesting/boring	em (geibes) 1-3mit	,
Wein Stundenpia	an – My timetable	nützlich/praktisch	useful/practical	(eine) (dunkelblaue) Jeans	(a pair of) (dark blue) jeans
Was hast du am	What do you have on	weil ich schwach in bin	because I'm weak in	(braune) Shorts	(brown) shorts
Montag	Monday	weil ich sportlich bin	because I'm sporty	(hellblaue) Sportschuhe	(light blue) trainers
Dienstag	Tuesday	weil ich Sprachen liebe	because I love languages	orange/rosa(rot)	orange/pink
Mittwoch	Wednesday	Picture description		Wie findest du Sch	
Donnerstag	Thursday	Auf dem Bild/Im Foto	On the photo	How do you find school uniforms?	
Freitag	Friday	lch/man kann sehen	I can see/you can see	Ich finde sehr praktisch	I find very
in der ersten/zweiten/	in first/second/third	Im Bild gibt es	In the picture there is		practical
dritten Stunde	lesson	man sieht	you (can) see	Auf der anderen Seite sind sie	On the other hand, they are
Wie oft hast du?	How often do you have?	Auf der linken/rechten Seite	On the left/on the right	langweilig	boring
lch habe einmal/	I have once/twice/	Im Hintergrund V2	In the background	teuer	expensive
zweimal/dreimal pro Woche/pro Tag	three times per week/per day	Im Vordergrund V2	In the foreground	unbequem	uncomfortable
Wie viele Stunden hast	How many lessons do	Das Foto wurde gemacht	The photo was taken	der Vorteil/Nachteil ist	the advantage/
du?	you have?	Sie spielen, essen , tragen,	They are playing, eating, wearing, talking (to each	der vorten/Nachten ist	disadvantage is
am Nachmittag	in the afternoon	sprechen (miteinander)	other)	ein Mädchen/ein Junge	a boy/a girl
nach der Pause	after break	USE PRESENT TENSE TO SA DOING – "NO IS-ING" "AM-ING		ein Schüler/eine Schülerin	a pupil

Half Term 1

Die Schule

Year 10 German



SE

り り

communication

Graphic

A zine is a small-circulation self-published work of original or appropriated texts and images, usually reproduced via a copy machine. Zines are the product of either a single person or of a very small group, and are popularly photocopied into physical prints for circulation.

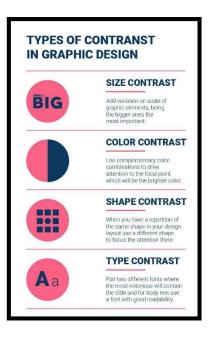
Keyword	Principles of Design – read, cover, write, review
Balance	This refers to the distribution of the graphic design elements, such as shapes, text boxes and images, of a design evenly throughout a certain layout. Designers can choose between a balanced (stable) design or off-balanced (dynamic) layout.
Emphasis	Refers to a design's focal point and the importance of each element within it
Alignment	Having a strong point of alignment within design allows our eyes to seamlessly flow through the visual message. Aligning elements with one another so that every item has a visual connection with something else on the page, tightens a design and eliminates the haphazard, messy effect which comes from random placement of elements.
Contrast	The contrast principle of design generates space and distinction between elements, and is the most effective way to create emphasis and impact with your design.
Repetition	Repetition strengthens a design by tying together otherwise separate parts, and as a result, creates associations.
Proportion	The visual size and weight of parts in composition and their correlation is referred to as proportion.
Movement	Controlling the elements in a composition such that the eye is led from one to the next and the information is transmitted appropriately to your audience is known as a movement.
White space/ negative space	The empty space around the parts in your composition/layout is known as white space.
Hierarchy	Hierarchy creates organisation, typographic hierarchy is an essential part of any design or layout and even if you're not familiar with the term, you'll be sure to have seen hierarchy in action on any website, newspaper or magazine.

https://www.youtube.com/watch?v=7r5Pu0ecHdY&ab_channel=4TheCreatives

Balance In the context of graphic design, balance is of three types.

- •Symmetrical This type of design is formed along a vertical axis and or horizontal axis, where the weight of the elements is evenly divided into both sides of the layout.
- •Asymmetrical This type of balance employs scale, contrast and colour to even out the flow of a layout. It is usually found in websites, where two sides of a webpage differ from each other but contain similar elements.
- •Radial Here, the elements of a design are placed in a circular pattern on the layout. This provides a sense of movement and dynamism to the eyes of the viewer.

Keyword	Definition
Typography	Typography is the visual component of the written word,". All visually displayed text, whether on paper, screen or billboard, involves typography.
Kerning	Kerning refers to the space between two specific letters (or other characters: numbers, punctuation, etc.) and the process of adjusting that space improves legibility.
Tracking	Tracking is similar to kerning in that it refers to the spacing between letters or characters. However, instead of focusing on the spacing between individual letters (kerning), tracking measures space between groups of letters.





Bournemouth School: History Department: Knowledge Organiser: Year 10 Autumn 1: Cold War 1958 - 1970

Timeline of key events:

1949-61: 4m East Germans fled West 1958: Khrushchev's Berlin Ultimatum 1959: Cuban Revolution: Fidel Castro replaced US - backed General Batista Late 1959: Khrushchev sending weapons to Cuba 5th May 1960: American U2 spy plane shot down over USSR airspace 14th May 1960: date for Paris summit meeting (that was cancelled by Khrushchev) Jan 1961: up to 20,000 refugees going through East Berlin to the West April 1961: Bay of Pigs failed invasion June 1961: Vienna summit meeting July 1961: both US and USSR announce an increase in defence spending 13th August: Khrushchev closed the border between East and West Berlin October 1961: Stand-off at Checkpoint Charlie in Berlin 14 - 28th October 1962: 13 days of the Cuban Missile Crisis June 1963: Kennedy visits Berlin 1963: Hot Line set up August 1963: Limited Test Ban Treaty 1968: Outer Space Treaty and Nuclear non - Proliferation Treaty signed Spring 1968: Dubcek's Prague Spring in Czechoslovakia 21st August 1968: Soviet invasion of Czechoslovakia Autumn 1968: Brezhnev Doctrine January 1969: Jan Palach set fire to

himself

	Key terms/definitions	
Term	Definition	V
Berlin Ultimatum	Khrushchev's accusation that the Allies had broken the Potsdam Agreement of 1945	
Blockade	A naval quarantine around Cuba to prevent soviet ships delivering military materials	
Boundary	The dividing line in East Berlin marking where the barrier was created to encircle West Berlin	
_	from East Berlin and the GDR, where the Berlin Wall was then built.	
Brain-drain	The term to describe the large numbers of professional and skilled people leaving through	
	East Berlin for a new life in the West	
Brezhnev	Soviet foreign policy from 1968 which meant military intervention by Warsaw Pact forces if	
Doctrine	another member of the Warsaw Pact tried to leave the Soviet sphere of influence	
Brinkmanship	A term used to describe pursuing a dangerous policy to the limits of safety; associated with	
	the 13 days of the Cuban Missile Crisis	
Checkpoint	The best-known Berlin Wall crossing point between East Berlin and West Berlin. The scene of	
Charlie	a famous stand-off between the superpowers.	
CIA	Central Intelligence Agency: used by USA to gather/analyse intelligence for national security	
Cuban exiles	Pro-American Cubans who fled to the USA after the Cuban Revolution.	
	Called 'La Brigada 2506'	
Cuban Revolution	The overthrow of General Batista by Fidel Castro	
De-Stalinisation	The elimination of the influence of Stalin, led by Nikita Khrushchev after the death of Stalin	
Defectors	A person who abandons their country for another country with an opposing ideology	
Defence spending	The amount both the USA and the USSR were spending on military hardware	
Detente	A French term meaning a 'relaxation of tension' between the USA and the USSR	
EEC	The European Economic Community: an organisation to foster economic integration created	
	in 1957	
Espionage	Spying on each other: a main feature of the Cold War, increasing rivalry and mistrust	
Hot Line	A direct line of communication set up between Washington and Moscow	
Jupiter missiles	US nuclear warheads stationed in Italy and Turkey as a forward strike capability	
NATO	North Atlantic Treaty Organisation formed to provide 'collective security' against the USSR	
Non-Proliferation	Signed by major nuclear and non-nuclear powers pledging their cooperation to stop the	
Treaty	spread of nuclear weapons and to stop developing them	
Outer-Space	A promise made by the superpowers and also Britain, to use outer space for peaceful	
Treaty	purposes and not place nuclear weapons in orbit	
Peaceful co-	A belief originating from Khrushchev that despite ideological differences the superpowers	
existence	could exist peacefully together	
Potsdam 1945	The last wartime conference led by Truman, Attlee and Stalin in July 1945	
Prague Spring	Series of liberalising reforms introduced by Dubcek in Czechoslovakia	
Thermonuclear	A military conflict deploying nuclear weapons, likely to lead to MAD (mutually assured	
	destruction)	
Warsaw Pact	A military treaty including the USSR and the European satellite states	

Benemouth School: History Department: Knowledge Organiser: Year 10 Autumn 1: Cold War 1970 - 1991

Timeline of key events:

May 1972: SALT I signed May 1972: President Nixon visits Moscow Oct 1973: Arab-Israeli War (Yom Kippur) Jan 1973: Peace in Vietnam after 11 years July 1974: Nixon visits Moscow (2nd time) July 1975: Space link-up July 1975: Helsinki Agreements 27th April 1978: Communist PDPA led by Taraki takes power in Afghanistan Sept 1979: Amin seizes power from Taraki Nov 1979: US hostage crisis in Iran 25th Dec 1979: Soviets invade Afghanistan. SALT II not ratified 27th Dec 1979: Amin shot and replaced by

Kamal

Jan 1980: Carter Doctrine: end of Detente Summer 1980: USA boycott Moscow Olympic Games

Nov 1980: Reagan elected President 1981: Reagan announces significant increases in US defence spending: 2nd 'Cold War'

1982: Lech Walesa imprisoned in Poland Nov 1982: Brezhnev dies; replaced briefly by Andropov

June 1982: Reagan's 'evil empire' speech 23rd March 1983: Strategic Defence Initiative ('Star Wars')

Feb 1984: Chernenko replaced Andropov Summer 1984: USSR boycotts Olympics March 1985: Gorbachev new Soviet leader Nov 1985: 1st summit meeting in Geneva Oct 1986: 2nd summit in Reykjavik Dec 1987: INF Treaty signed 1988: Gorbachev rejects Brezhnev Doctrine

1988 - 91: Collapse of Soviet control in Eastern Europe

9th Nov 1989: Berlin Wall pulled down 1990 Germany reunifies

July 1991: Warsaw Pact formally ends Dec 1991: end of Gorbachev and USSR

	Key terms/definitions	
Term	Definition	√
Détente	French term: 'relaxation in tension' associated with 1970's USA/USSR relations	
Six Day War	1967: a war between Israel and its Arab neighbours lasting 6 days in June 1967	
Vietnam War	Conflict: 1954-1975 between the communist backed North and the US backed South	
SALT I & SALT II	Strategic Arms Limitation Talks (I: May 1972; and II: not ratified in 1979)	
AMB / SLBM / ICMB /	Anti-ballistic missile system / submarine-launched ballistic missiles / intercontinental	
MIRVs	ballistic missiles / multiple independently targetable re-entry vehicles	
Disarmament	The term given to describe the reduction or withdrawal of military forces / weapons	
Cosmonauts	Name given to soviet individuals who travelled in space	
Apollo-Soyuz	First international space mission including USA and USSR crew, symbolising Detente	
Helsinki Declaration	The results of agreements on international Security, Cooperation and Human Rights	
Dissident	Term to describe a person who opposes official policy, especially authoritarian states	
US Congress	The law-making branch of the USA's Federal Government	
DPDA	A communist party in Afghanistan: the People's Democratic Party of Afghanistan	
Mujahideen	A guerrilla movement in Afghanistan wanting to overthrow the government of Amin	
Hostage crisis	Militant Islamic students seized US embassy staff; made Carter look weak by late 1979	
Carter Doctrine	US foreign policy whereby US would use force if necessary in Persian Gulf area	
Boycott	The term given to avoid something, such as the Olympic Games in 1980 & 1984	
'2 nd Cold War'	A term used to describe a more hard-line approach by Reagan towards the USSR	
Deployment	Term given to describe the placement of military and nuclear weapons and troops	
NUTS	'Nuclear Utilization Target Selection': specific targets could be identified	
MAD	'Mutually Assured Destruction': an attack by either side would result in devastation	
'Zero option'	US proposal to withdraw all Soviet and USA nuclear weapons from Western Europe	
Solidarity	Polish Trade Union movement led by Lech Walesa in 1980 demanding political change	
SDI / 'Star Wars'	'Strategic Defence Initiative': a US plan for ground and space-based laser armed anti- ballistic missiles designed to destroy in-coming missiles from the USSR from space	
New Thinking	Term given to describe Gorbachev's plans to reform and modernise communism	
Glasnost	The name given to Gorbachev's policy of openness, ending censorship and encouraging free expression	
Perestroika	The name given to Gorbachev's policy of restructuring the soviet economy	
Uskoreniye	A Russian term for 'acceleration' of economic development	
Summit meetings	A series of meetings in 1985, 1986 and 1987 designed to reduce nuclear weapons	
INF Treaty	Intermediate-Range Nuclear Forces Treaty eliminating many nuclear weapons	
Gorbymania	The term given in the West to describe the popularity of Gorbachev	
Sinatra Doctrine	A rejection of the Brezhnev Doctrine: the USSR would no longer interfere in any	
	changes Warsaw Pact countries made regarding their internal affairs	
Malta Summit	Declaration made in 1989 by Gorbachev and Bush that the Cold War was over	



Year 10 Autumn term 1 AoS 2 Vocal music

Background

Anthem—song with a strong memorable melody with rousing and uplifting characteristics.

Baroque pitch—before A=440 was introduced, pitch was more variable and generally lower. Playing at this pitch on reproduction or period instruments is known as Baroque pitch. Approx one semitone lower than standard pitch.

Glam Rock— style of rock known for its over the top and glamorous dress sense

Incidental music—music written to go with a play, but where the play is not primarily musical. Often used for transitions etc

Lament—song with sorrowful mood. Often slow and in the minor key

Stadium Rock - rock music intended for larger venues

Rhythm

Compound metre—a metre in which the beat subdivides into three

Constant quavers—when a part moves only in quavers e.g. the ground bass

Quadruple metre—4/4—4 crotchets in each bar

Swing rhythm—often in jazz—rhythm where the first of a pair of quavers is played longer than the second.

Texture

Arpeggiation - when a chord is played by spreading the notes playing (usually) from bottom to top.

Basso continuo—literally continuous bass line. Accompaniment played by a melodic bass instrument, often a cello, and a chordal instrument such as harpsichord, lute or organ

Counterpoint—literally tune against tune—2 rhythmically independent melodies playing at the same time

Homophonic a texture comprising of a melody and an accompaniment

Melody dominant homophony—texture with one clear melody and an independent accompaniment.

Vamp—a short repeated accompanying phrase

Structure

Chorus—section in which the lyrics and the music remains the same. Often catchy and memorable, with a lift in mood from the verse. Alternates with the verse

 $\mbox{\sc Da}$ Capo aria—ABA or ternary form. Da Capo means again from the beginning.

Ground bass—a repeating bass line pattern played throughout the piece

Intro—opening section of the song before the main parts

Outro—final ending section, like a coda in classical music

Solo—an extended often improvised melodic line played by an instrument. Usually in the middle of the song.

Verse—section in which the lyrics change but the music remains broadly the same each time it is heard

Melody

Dominant—5th degree of scale

Grace note—an additional note or notes played or sung before the main melodic note.

Melisma—vocal setting where more than one note per syllable is used

Mordent—ornament where the main note is played followed rapidly by the one above and then the main note.

Passing note—a stepwise note between two harmony notes a 3rd apart

Range—the interval between the highest and lowest notes in any given part.

Sequence—melodic device where a short section is immediately played again at a higher or lower pitch. Used in the ground bass.

Slide—when a performer doesn't move cleanly from one pitch to another, instead sliding through all frequencies in between the two pitches

Syllabic—vocal setting with one note per syllable.

Tessitura—the range of the instrument/voice in which the melody is set

Tonic—1st degree of scale

Trill—rapid alternation of written note and the note above

Word painting—depicting a word in music to imitate its meaning.



This QR code will take you to a Spotify playlist with audio examples of many of the concepts covered on this sheet and in lessons. You will find it helpful to listen to these as you learn.

10



Year 10 Autumn term 1 AoS 2 Vocal music

Instrumentation

Bass viol—large bowed and fretted string instrument similar in range to a cello. Plays the ground bass and the basso continuo in this piece.

Countertenor—male voice which sings in the alto range

Distortion—an effect that increases the volume and sustain on an electric guitar, making the timbre more gritty or smoother, depending on settings

Effects—electronic devices used to enhance or alter the basic quality of the sound

EQ stands for equalization, a production technique that adjusts the volume of specific frequencies in a sound

Flanger—and effect with a swirling sound

Harpsichord -keyboard instrument in which the strings are plucked. Has no ability to sustain notes or to vary the dynamics. Plays basso continuo in this piece

Hi Hat—pair of cymbals mounted on a stand so that they can be struck together using a foot pedal

Kick drum or bass drum—biggest drum on a kit, played with a foot pedal

Mix—the relative volume of different tracks in a recording and their place in the stereo field.

Multitracking – separate recordings are made of each sound source and then mixed to give a final recording

Overdubbing—recording a part over previously recorded music

Panning - giving sounds different levels in the left and right speakers to give the impression they are coming from different places.

Pull Offs—when a note is sounded on the guitar by pulling the finger off the fret to alter the note. Makes the pitch lower

Ride—type of cymbal which often has a counter-rhythm to the main beat

Snare - a drum with a series of loose metal wires in contact with the lower skin giving a distinctive buzz or rattle to the sound

Snare roll—a rapid succession of notes on the snare

Soprano—high pitched female voice

Stereo Field—how the sounds are positioned in the left and right speakers

Vibrato—technique used to cause rapid variations in the pitch of a note.

Tonality

A minor—minor key starting on A

Modulation—changing key.

Harmony

Added notes—notes that are added to the basic triad

Circle of 5ths – chords with their root a 5th apart

Diatonic—chords which only use notes from the key

Figured Bass—system of notating chords for the continuo instruments. Numbers are written underneath the bassline to indicate the intervals to be played above the bass note.

False relation – a type of dissonance where to versions of the same note are used in quick succession e.g. in b1 the F♯ in the bass is followed by an F natural in the right hand of the harpsichord

Functional—chords which help to define the key

Ground Bass—bass line which repeats throughout the whole piece and over which the rest of the music is composed.

Perfect cadences - chord progression V-I. Used to cement modulations

Suspension—prepared dissonance. Prolonging a note to create a dissonance with the next chord before resolving the dissonance.

Tierce di Picardy—ending a minor key piece with a major chord



This QR code will take you to a Spotify playlist with audio examples of many of the concepts covered on this sheet and in lessons. You will find it helpful to listen to these as you learn.

Personal Development is
Personal - to do with ourselves
Relationships - how we relate to others and
how they relate to us
Sex - how we interact and relate to others in a
sexual sense
Health - about looking after our bodies,
mentally and physically
Careers - how we plan and develop our careers
Economics - all about managing our money (the
E also stands for education too)
the Wio
Health &

RELATIONSHIP

Keyword	Learn	~
Curriculum Vitae (CV)	a short written description of your education, qualifications, previous jobs, and sometimes also your personal interests, that you send to an employer when you are trying to get a job	
Cover Letter	a one-page business letter that you submit when applying to a job, along with your CV. As a piece of persuasive writing, your cover letter will aim to convey to the employer why you're a great candidate for the role.	

Useful Careers Websites

The **Unifrog** platform is designed to support learners in making the most informed decisions about their futures and has a range of tools that are suitable for all year groups. Each student has their own personal account that provides a wide range of information related to their interests and aspirations. www.unifrog.org

Information on apprenticeships, including a range of different schemes:

unifroa

https://amazingapprenticeships.com/

General careers information: https://careerpilot.org.uk/

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Year 10 – Personal Development – September 2025

Openness: Be open and honest. However, do

not discuss others' personal/private lives - try to use examples.

Keep the conversation in the room: You should feel safe discussing issues and be confident that you contributions will not be shared outside this room. If your teacher

has concerns that someone is at risk of harm they have a duty to refer.

Non-judgmental approach: It is okay for us

To disagree with another person's point of view but do not judge, make fun of, or put anybody down. - 'challenge the opinion, not the person'.

Right to pass: Taking part is important. However, you have the right to pass on answering a question and you will not put anyone 'on the spot'.

Make no assumptions: Do not make assumptions about people's values, attitudes, behaviours, identity, life experiences or feelings. Listen to other people's views respectfully and expect to be listened to.

Use appropriate language: Use the correct terms rather than slang terms - they can be offensive.

Ask questions: You are encouraged to ask questions. However, do not ask personal questions or say anything to embarrass someone.

Year 10 Work Experience - 18th - 22nd May 2026

Work experience gives students the chance to learn about what type of job they might enjoy, and develop their CV. Students are responsible for sourcing their own work experience placements.

We are using **Unifrog** (www.unifrog.org) to manage the administration of the work experience programme – for example collecting information from the employer about their Risk Assessment and Health & Safety policy, as well as obtaining parental consent.

Some important logistics:

- Students need to agree the placement with the employer **first**, and then students will add the placement to their Unifrog account (you will find the Placements tool on the Unifrog homepage).
- The Unifrog system will then email the employer, the parent / guardian, and the school, to collect the necessary information and permissions. For the process to work, it is essential that students add the initial information about the placement accurately.
- Placements should be secured by 15th December

Components of Fitness:

- Cardiovascular endurance: the ability of the heart and lungs to supply oxygen to the working muscles.
- Agility: The ability to move and change direction quickly (at speed) whilst maintaining control.
- 3) **Balance:** maintaining the centre of mass over the base of support.
- 4) **Co-ordination:** the ability to use different (two or more) parts of the body together smoothly and efficiently.
- 5) **Flexibility:** the range of movement possible at a joint.
- Muscular endurance: Ability of a muscle or muscle group to undergo repeated contractions avoiding fatigue.
- Power / Explosive strength: the product of strength and speed (strength x speed).
- 8) **Reaction Time:** the time taken to initiate a response to a stimulus.
- Speed: the maximum rate at which an individual is able to perform a movement or cover a distance in a period of time (speed = distance divided by time)
- 10) **Strength:** the ability to overcome a resistance
 - a) Maximal the largest force possible in a single maximal contraction
 - b) **Dynamic** repeated contractions
 - c) **Explosive** (see POWER)
 - d) **Static** the ability to hold a body part in a static position.

When asked to explain remember to give specific sporting examples:

- Power is needed in football to kick the ball harder when shooting so it is more difficult for the goalkeeper to save.
- A gymnast uses power gain height when jumping. This will give them more time to complete the move.
- Cardiovascular fitness is important in hockey as each game lasts a long time therefore they need to be able to transport oxygen around the body effectively for the duration of the match. This will help them maintain the quality of performance throughout game.

Health:

State of complete mental, physical and social wellbeing and not merely the absence of disease or infirmity.

Fitness:

Ability to meet the demands of the environment

3.1.3.1 The relationship between health and fitness and the role that exercise plays in both &

3.1.3.2 The components of fitness, benefits for sport and how fitness is measured and improved

Reasons for Fitness Testing:

- To identify strengths and weaknesses, this allows them to work on weaknesses
- To allow you to plan your training
- To show a starting level of fitness
- To monitor improvement
- To monitor the success of a training programme
- · To compare against normative data
- To motivate and set goals

Limitations with Fitness Testing:

- Tests are often not sports specific (give an example)
- They do not replicate the movements in a sport
- They don't replicate the high-pressure environment of sporting activities/noncompetitive
- Some are not reliable
- Some are maximal which means the performer is required to try their best

Protocols MUST be followed or else the tests are invalid

Fitness Tests

Agility = Illinois agility run: Cones arranged in 10m x 5 m rectangle with 4 cones down the middle, performer starts face down, performer runs around the cones as fast as possible, performer is timed, compare results to national averages.

Balance = Stork Balance Test: start balanced on 2 feet, hands placed on hip, one leg lifted so that the toes of the lifted leg touch the inside of the planted leg, timekeeper tells the individual to raise the heel on the planted leg and starts the stopwatch, individual balances for as long as possible, timer stops clock when the individual loses their balance, compare to national averages.

Cardiovascular endurance = multi-stage fitness test: Cones set out 20m apart, test gets progressively harder, individual runs 20m in time with 'bleeps', time between bleeps gets shorter as levels increase, performer runs for as long as possible, score recorded as a level when performer finishes e.g. level 8 bleep 4, compare to national averages.

Co-ordination = wall toss test: tennis ball starts in one hand, stand 2m from wall, on 'GO' the performer works for 30 seconds, performer throws ball against wall and catches it with opposite hand, if ball is dropped the time continues, compare to national averages.

Flexibility = sit and reach test: Remove shoes, sit on floor with feet flat against sit and reach board, performers legs must be straight, performer pushes forward slider as far as possible, score is recorded in centimetres, compare to national averages.

Muscular endurance = abdominal curl conditioning test: Performer lies on mat in a sit-up position, partner holds ankles, performer sits up on bleep and down on bleep (staying in time), the test gets progressively harder as bleeps get faster, score is how many sit ups you did, compare to national averages

Power / Explosive strength = vertical jump test: with flat feet, stand and push the wall ruler with fingertips as high as possible, apply chalk to finger tips, from a standing position jump as high as possible marking the ruler with chalk, record height jumped, compare to national averages.

Reaction time = ruler drop test: Place thumb and index finger together of dominant hand, partner holds metre ruler above, without warning partner drops ruler, individual being tested must catch the ruler, measure in 'cm', compare to national averages

Maximal Strength test = one rep max: lift weight once using the correct technique, if completed attempt a heavier weight until heaviest weight is discovered, take 1 rep max weight and divide it by body weight, compare to national averages.

Strength = handgrip dynamometer test: hold dynamometer in dominate hand, bend elbow at 90 degrees and place against body, squeeze with maximum effort, record best score, compare to national averages.

Speed = 30m speed test: set up two cones 30m apart, use a flying start, individual is timed running as fast as they can for 30m, compare to national averages.

Worship:
Liturgical worship- a church service that follows a set
structure and pattern. Non-liturgical worship- a church service that does not follow a set text or ritual
Why do Christians worship? To praise God, give thanks, for
forgiveness, to strengthen relationship with God.

Liturgical worship takes place in a church set prayers with set response Non-liturgical worship
no set order
Services follow themes

Holy Communion and celebrating it:

Holy Communion sacrament that uses bread and wine to remember sacrificial death of Jesus. Remembers the events of the Last Supper

Different understandings of Holy Communion

Catholic transubstantiation (bread and wine actually becomes the body and blood of Jesus) **Protestant** see the bread and wine as symbolic to remember Jesus' sacrifice "**Do this in remembrance of me**"

Role of the Church in the local community:

Food banks The Church the holy people of God, also called the Body of Christ, among who Christ is present and active A church building in which Christians worship **What does the Church do?** Support projects such as food banks, providing social services and campaigning for justice. **The Trussell Trust** runs over 400 foodbanks in the UK, provides food for those in need . **The Oasis Project** provides an internet café, CV support and a safe meeting place.

<u>Church growth and the importance</u> of the worldwide Church:

Ways Christians spread the faith; praying, via social media, fellowship meals, sharing what God has done for them with others. Working towards reconciliation. Church has a mission to restore people's relationship with God and one another.

Set prayer-prayers that have been said more than once and written

And written down for example the Lord's prayer.

Informal prayer -a prayer that is made up by the individual using his/her own words

Why is prayer important? - Allows Christians time to reflect, find peace, allows them to communicate with God - The Lord's prayer is important as it reminds Christians to forgive others in order to be forgiven - Key quote - "Our Father, who art in heaven

Pilgrimage:

Religious journey of moral and spiritual importance

Lourdes – France in the South West of France. Bernadette had numerous visions of the Virgin Mary who told her to dig for spring water. The water is believed to have healing powers and miracles are said to happen there. Pilgrims bathe in the water and there is a big focus on the sick and disabled.

Iona – island off the coast of Scotland ②
Ecumenical community pilgrims spend time praying, reading the Bible, reflecting and meditating. It is said the veil between earth and heaven is thin here.

Christian persecution:

Persecution hostility and ill treatment Examples of persecution paying extra taxes, job discrimination, being forbidden to build churches, attacks on Christian homes, churches and families, including murder **Christian** responses to persecution: To stand up against persecution Persecution can strengthen faith—'if one suffers, every part suffers with it'. They are encouraged to show love and forgiveness towards persecutors

Baptism:

Infant baptism -is for babies and young children Believers' baptism people who are old enough to make the decision to be baptized.

Why are people baptised? To become a member of the Church, to be cleansed of sin, follow in Jesus' footsteps.

Believer's baptismInfant baptismAttend baptism classesParents make promisesGives a brief testimonyRemoves original sin

Celebrating festivals Two main festivals in Christianity are
Easter and Christmas Christmas commemorates the
incarnation of Jesus Ways it is celebrated carol services, nativity
scenes, giving to charity, Midnight Mass, Christmas cards and gifts
Easter celebrates the resurrection of Jesus from the dead Ways it
is celebrated on Good Friday there are special services and
processions led by a person carrying a cross, Saturday night some
churches hold a special service to celebrate the resurrection,
Easter Sunday churches are filled with flowers and hymns are
sung "He is Risen!"

<u>Mission and evangelism:</u> <u>Mission</u>- vocation or calling to spread the faith

Evangelism- showing faith in Jesus by example or by telling others. The Great Commission Jesus instructs his disciples to go and spread the gospels and make disciples of others through baptism. "Go and make disciples of all nations." **Missionary work** to persuade people to accept Jesus as their Saviour. Alpha is an example of evangelism in the UK. It is an introductory course to Christianity for those that are interested.

The Church's response to world poverty Helping those in need 2 Jesus taught it was important to help others and often taught his message through parables 2 The parable of the Rich man and Lazarus sees a rich man sent to hell for not helping the poor Christian charities that help those in poverty: Christian Aid, Tearfund, CAFOD What do they do? Provide short term and long-term aid including, food, medical supplies, shelter and sanitation

Role of the Church in the local community: Street Pastors, selfless, sacrificial, unconditional love. Jesus taught the importance of helping those in need. Key quote 'Faith, by itself, if it is not accompanied by action, is dead' James 2:17 NIV Street Pastors -Volunteers who stroll the streets at night helping those that are drunk and supporting the police and local councils with anti-social behaviour. They listen to people's problems and give them advice.

Los miembros de la familia – family members		
mi padre / madre	my father / mother	
mi padrastro / madrastra	my stepfather / stepmother	
mi hermano / hermana	my brother / sister	
mi hermanastro / hermanastra	my step-brother / step-sister	
primo / prima	cousin	
hijo único / hija única	only child (boy / girl)	
abuelo / abuela	grandfather / grandmother	
gemelos	twins	
tío	uncle / aunt	
bebé	baby	

¿Cómo eres? – What do you look like?		
Soy	l am	
Es	He / she is	
alto / bajo	tall / short	
más alto que	taller than	
rubio	blonde	
moreno	dark-skinned	
pelirrojo	red-haired	
Tengo el pelo	I have hair	
castaño	brown	
negro	black	
largo / corto	long / short	
Tengo los ojos	I have eyes	
azules	blue	
marrones	brown	
verdes	green	
Llevo gafas	I wear glasses	

¿A quién sigues? – Who do you follow?		
Sigo I follow		
a artistas	artists	
a cantantes latinos	South American singers	
canales de	channels	
cocina	cookery	
videojuegos	videogames	
mis deportistas favoritos	my favourite athletes	
videotutoriales de dibujo	art video tutorials	
vlogs de estilo de vida	lifestyle vlogs	

¿A quien admiras? – Who do you admire		
Admiro a	I admire	
Lo / la sigo / admiro	I follow / admire him /	
porque	her because	
apoya a otras personas	He / she supports others	
es un buen modelo de	he /she is a good role	
conducta	model	
es una inspiración para	he / she is an	
otros	inspiration to others	
lucha / luchó por	he fights / fought for	
los derechos de otras	the rights of others	
personas	the rights of others	
la igualdad de	equality of opportunity	
oportunidades	ho / sho was the first	
fue la primera persona en	he / she was the first person to	
participar en	participate in	
	 	
ganar	win	
-		

¿Qué es lo más importante para ti?		
Lo más importante es	The most important thing is	
mi familia	my family	
mi educación	my education	
mi cultura	my culture	
mis amigos	my friends	
la amistad	friendship	
mi religion / mi fe	my religion / my faith	
la paz	peace	
el amor	love	

¿Cómo es un buen amigo? -	- What is a good friend like?
Un buen amigo	A good friend
te comprende	understands you
te conoce bien	knows you well
te hace reír	makes you laugh
te respeta	respects you
te acepta como eres	accepts you as you are
te ayuda cuando tienes	helps you when you
problemas	have problems
te apoya en lo bueno y lo malo	supports you in the good and the bad
te da buenos consejos	gives you good advice
no te critica	doesn't criticise you
es fiel	is loyal
puede guardar un secreto	he / she can keep a secret
te apoya en lo bueno y lo malo te da buenos consejos no te critica es fiel	supports you in the good and the bad gives you good advice doesn't criticise you is loyal

¿Cómo es tu relación con tus amigos?		
me llevo	I get on	
nos llevamos	we get on	
me peleo con	I argue with	
nos peleamos	we argue	
me divierto	I have fun	
nos divertimos mucho	we have a lot of fun	
me hace reír	he / she makes me laugh	
me conoce bien	he / she knows me well	
puedo confiar en él / ella	I can trust him / her	
siempre estamos juntos	we are always together	
casi nunca nos peleamos	we never argue	
puedo contar con él / ella	I can count on him / her	
tenemos los mismos intereses	we have the same interests	

Year 10 - SPANISH - Half-Term 1

¿Qué piensas de las redes sociales?		
Son buenas / útiles para	They are good / useful for	
compartir fotos	sharing photos	
buscar información	looking for information	
estar en contacto con tus amigos	being in contact with your friends	
participar en la comunidad	participating in the community	
expresarse	expressing yourself	
chatear con	chatting with	
Lo malo es que	The bad thing is that	
causan	they cause	
adicción / presión / acoso	addiction / pressure / bullying	
problemas para dormir	problems sleeping	
son una gran distracción	they are a big distraction	

¿Qué puedo hacer? – What can I do?		
Mi problema es que	My problem is that	
me siento / estoy	I feel / I am	
diferente / triste / solo	different / sad / alone	
muy mal	very bad	
no me relaciono con nadie	I don't relate to anyone	
ignora todos mis mensajes	he / she ignores all my messages	
es muy negativo	he / she is very negative	
me peleo mucho con él / ella	I argue with him / her a lot	
siempre me crítica	he / she always criticises me	

Giving advice				
Deberías	You should			
Podrías	You could			
Es importante / necesario	It is important / necessary			
limitar el tiempo en línea	to limit your time online			
organizar actividades	to organise activities			
apoyar a tu familia	to support your family			
explicarles cómo te sientes	to explain to them how you feel			
expresar tus sentimientos	to express your feelings			
hablar con él cara a cara	to talk to him face to face			
crear nuevas rutinas	to create new routines			
tienes que ser fuerte	you have to be strong			

Describing a photo				
En la foto In the photo				
Hay	There is/are			
Puedo ver I can see				
Puedes ver You can see				
A la izquierda	On the left			
A la derecha	On the right			
En el centro	In the centre			
En el fondo	In the background			
En primer plano	En primer plano In the foreground			
Al lado de	Next to			

Adding more detail to	a photocard description			
está he/she is				
están	they are			
sonriendo	smiling			
corriendo	running			
comiendo	eating			
bebiendo	drinking			
chateando	chatting			
jugando	playing			
en un campo	in a field			
en una cocina	in a kitchen			
en un salon	in a lounge			
en la playa	on the beach			
en el cine	in the cinema			

Ser and Estar

Use the verb **estar** for talking about **location**.

Estoy/Están en el jardín.
I am / They are in the garden.

Use the verb **ser** when talking about **physical description.**

Soy/Es moreno/a.
I am / He/She is dark-haired.

Possessive adjectives

Most possessive adjectives have two forms, singular and plural

-In addition, nuestro (our) and vuestro (your, plural) also have masculine and feminine forms:

Nuestr**o** hermano Our brother Nuestr**as** hermanas Our sisters

	Singular	Plural	
my	mi	mis	
your	tu	tus	
his/her/its	su	sus	
our	nuestr o/a	nuestr os/as	
your (plural)	vuestr o/a	vuestr os/as	
their	su	sus	

Desde hace

To say how long you have been doing something, use **desde hace** + <u>period of time</u> and the present tense of the verb.

Sigo muchas caneles en YouTube **desde hace** <u>meses</u> / un año.

I have been following lots of YouTube channels for months / a year

Notice that **seguir** is a stem-changing verb in the present tense (sigo, sigues, etc)

Personal 'a'

Use the **personal a** when the object of the verb is a person.

Admiro **a** esta persona desde hace mucho tiempo. I have admired this person for a long time.

Do **not** use it when the object is **not** a person.

Veo videotutoriales sobre cocina.

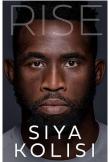
I watch video tutorials about cooking

Year 10 SPANISH - Half-Term 1

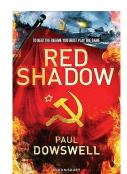


Just Sayin': My Life in Words by Malorie Blackman

The long-awaited autobiography of one of the world's greatest children's writers, and an empowering and inspiring account of a life in books. It is an account of her journey, from a childhood surrounded by words, to the 83 rejection letters she received in response to sending out her first project, to the children's laureateship.



Siya Kolisi shares his story in an extraordinarily intimate memoir, charting his journey from being born into the impoverished Zwide township, to leading his proud nation to an astonishing victory at the Rugby World Cup in 2019. However, 'Rise' is not simply a chronology of matches played and games won; it is an exploration of a man's race and his faith, a masterclass in attaining a positive mindset, and an inspirational reminder that it is possible to defy the odds, no matter how they are stacked against you.



Red Shadow by Paul Dowswell

Russia, 1940. Fifteen-year-old Misha's life is about to transform when his father is offered a job in Stalin's inner circle. They move into a luxurious apartment in the Kremlin, but doubts about the glorious new Russia quickly surface. Misha realises that the secret police can do whatever they like...

The Spy Who Came In From the Cold by John Le Carré

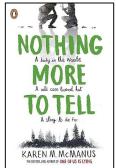
Rise by Siya Kolisi

An agent, desperate to end his career as a spy during the Cold War, is caught up in a breathlessly perilous assignment to come in from the cold and re-enter the West.



A Kestrel for a Knave by Barry Hines

This is the unsentimental story of the remarkable relationship between the desperate Billy, a friendless boy living in a soulless northern town, and the equally destructive, fierce kestrel, Kes, which he raises from the nest.



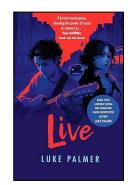
Nothing More to Tell by Karen McManus

Four years ago, Brynn guit Saint Ambrose School following the shocking murder of her favourite teacher. The case was never solved. When Brynn gets the internship of a lifetime working on a popular true-crime show, she decides to investigate what really happened that day in the woods. But the further she dives into the past, the more secrets she uncovers. Four years ago someone got away with murder. But secrets have consequences...



When Our Worlds Collided by Danielle Jawando

When fourteen-year-old Shaq is stabbed outside of a busy shopping centre in Manchester, three teenagers from very different walks of life are unexpectedly brought together. What follows flips their worlds upside down and makes Chantelle, Jackson, and Marc question the deep-rooted prejudice and racism that exists within the police, the media, and the rest of society.

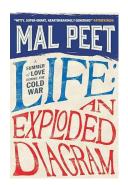


Live by Luke Palmer

Sixth-former George leads the school's coolest band - no party is complete without them. But when tragedy strikes, how can he rediscover the bright future they'd all planned?







Life: An Exploded Diagram by Mal Peet

Clem Ackroyd lives with his parents and grandmother in a claustrophobic home too small to accommodate their larger-than-life characters in the bleak Norfolk countryside. Clem's life changes irrevocably when he meets Frankie, the daughter of a wealthy farmer, and experiences first love, in all its pain and glory.



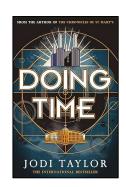
On The Beach by Nevil Shute

Australia is one of the last places where life still exists after nuclear war starts. Commander Dwight Towers and his Australian liaison officer is sent to the coast of North America to discover whether a stray radio signal is a sign of life.



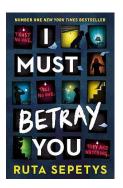
Digital Gold by Nathaniel Popper

Here, a New York Times technology and business reporter charts the dramatic rise of Bitcoin and the fascinating personalities who are striving to create a new global money for the Internet age.



Doing Time by Jodi Taylor

A long time ago in the future, the secret of time travel became known to all. Everyone seized the opportunity - and the world nearly ended. There will always be idiots who want to change history. And so, the Time Police were formed. An all-powerful, international organisation tasked with keeping the timeline straight. This is the story of Jane, Luke and Matthew - arguably the worst recruits in Time Police history. Or, very possibly, three young people who might just change everything.



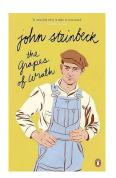
I Must Betray You by Ruta Sepetys

At 17, Cristian dreams of being free but doesn't know where to turn. In this climate of constant suspicion, can he trust his best friend, his girlfriend or even his family? Closely based on the real events of the Romanian Revolution of 1989.



Four Good Liars by Sarah Wishart

Teenagers, Layla, Kai, Liam, and Fliss, have little in common apart from catching the same seaside bus to travel to school. All four narrowly survive a horrific clifftop crash and discover their dead driver's holdall containing one million pounds - and a gun. All of them have secrets, and all of them need that money. But someone dangerous is hunting it down, and drawing closer every minute. If Layla, Kai, Liam and Fliss want to survive, they'll need to stick together. But can four good liars really trust one another?



The Grapes of Wrath by John Steinbeck

Shocking and controversial when it was first published, The Grapes of Wrath is Steinbeck's Pulitzer Prize-winning epic of the Joad family, forced to travel west from Dust Bowl era Oklahoma in search of the promised land of California. Their story is one of false hopes, thwarted desires and powerlessness, yet out of their struggle Steinbeck created a drama that is both intensely human and majestic in its scale and moral vision.



Successful Applications by Bruce Woodcock and Jenny Keaveney

Packed with top tips and helpful examples, this concise book takes students through the process of preparing and making successful applications for work placements, internships and graduate jobs.



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