

Monday 3rd June	Week A
Monday 10th June	Week B
Monday 17th June	Week A
Monday 24th June	Week B
Monday 1st July	Week A
Monday 8th July	Week B

Please note: Maths homework will be on an online platform for this term. It will be set and checked weekly separately from the timetable.

Knowledge Organisers 2023-24 Year 8 – Term 6

Complete your homework on the night stated e.g. if it is a Monday Week A you will complete ICT/DT

	Week A	Week B
Monday	ICT/DT	MFL
Tuesday	English	English
Wednesday	Science	Science
Thursday	History	Geography
Friday	RS	Music/Art

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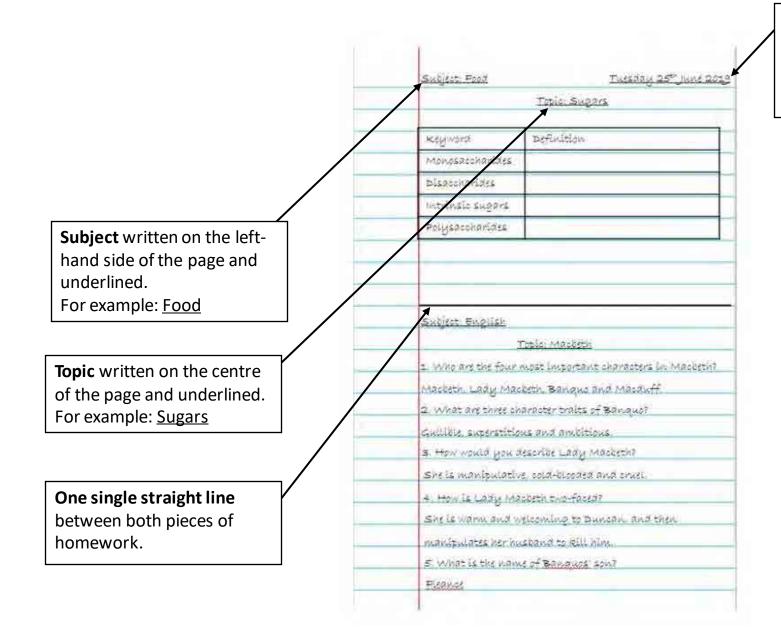
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This Knowledge Organiser is to help you see the key information for each subject for this term. You can use this to help you both with homework and with revision, supporting your learning at home. In the table below you will find the instructions for each subject to be completed on the correct day.

Subject	Tasks	
Maths	Homework question tasks/sets will be set weekly on an online platform. You will have one	
	week to complete this online, before it is checked for competition and the next set is published.	
Science	For term 1 this will be directed by your classroom teacher. It could involve an online platforn	
	too.	
English	Using the separate question booklet, divide your homework book page in half length ways,	
	write the questions out on the left hand side. First, attempt to answer the questions from	
	memory/your own knowledge. Then use your knowledge organiser booklets to check your	
	answers and fill in the missing ones.	
MFL	Find the correct date in the KO and the question booklet. With the list of 10 key words for the	
	week, complete the look – say - cover – write – check method in your homework	
	book. Complete this process for each word/phrase 4 times each.	
Geog/Hist/RS	Same process as outlined for English above. DT have 5 questions and not 10.	
/DT		
ICT	For term 1, continue to use the KO to do revision/key words etc in your homework books.	
Music/Art	For music and art, you will have two practical tasks to complete each term for each	
	subject. These will be found in the question booklets and will be checked by you classroom	
	teacher.	

At the back of this booklet, you will find: Sentence starters, a history chronology, DT sentence starters, a periodic table, maps of the world, subject websites, a RAG sheet and a timetable.

How to present your homework:



Date written fully on the righthand side of the page and underlined. This should be the day you complete the homework.

Home Learning Strategies to help you revise

Brain Dump



Write down everything you know about o certain topic on a page. Use your KO to add extra notes in a different colour.

Mind Map



Condense a topic showing the important links and connectors between key parts. Use your KO to add in extra notes.

Diagram



Draw a clear diagram for a subject including labels and key features. Make sure you use correct vocabulary and spellings.

Vocabulary



Learn the key words associated with a topic and commit the word and spelling to memory. Test yourself or ask someone else to test you.

Retrieval Quiz



Write key questions about a topic as well as the answers. Use the content of the KO to help you. Check to see if you can remember the answers without looking.

Compare



Complete a comparison table showing two different sides of a topic. Can you use it to create an argument for one viewpoint?

Year 8 Our Environment









Trus

Keywords:

Climate Change

Graffiti

Extinction

Environment

Habitat

Street Art

Content: In this project you will develop knowledge of environmental issues.

Understand-what inspired artists to create their work and how to critically analyse their work.

Develop skills- in observational drawing, colour theory, painting and visual communication.

Outcomes- Art works inspired by environmental issues and the Artists you have studied.

Andy Warhol's "Endangered Species" series includes 10 silkscreen prints. The animals where listed on the endangered at the time they were made in 1983. Andy Warhol made these prints to raise awareness about the endangered species. Andy Warhol is a famous artist from the Pop Art movement. He used images found in popular culture and used an industrial printing method to make his work.



R

S S



NeverCrew are a Swiss based street artist duo: Christian Rebecchi and Pablo Togni. The mural above 'Exhausting Machine' was created for the Vancouver Mural Festival in 2016. Nevercrew's art work explores the issues of climate change and pollution and the effect it is having on nature. You can find more information about their work at their website. https://nevercrew.com/about

In colour theory, a tint is a mixture of a colour with white, which reduces darkness, while a shade is a mixture with black, which increases darkness.





-Shades-





Complementary colours are pairs of colours that contrast with each other more than any other colour, and when placed side-by-side make each other look brighter.

PROGRAMMING TECHNIQUES

DATA TYPES

Data Definition Type		
String	Text eg: "Hello"	
Integer	Whole number eg: 32	
Float/Real	Decimal number eg: 1.2	
Boolean	Two values eg: true or false	
Character	A single character eg: b	

Casting is when you want to change between data types. Eg - if you want to use an integer in a sentence you would need to convert it to a string

VARIABLES AND CONSTANTS

Variable - A value which may change while the program is running. Variables can be local or global.

Local Variable - a variable which can only be used within the structure they are declared in.

Global Variable - a variable which can be used in any part of the code after they are declared

Constant - A value which cannot be altered as the program is running.

OPERATORS

Operator/Function Definition		
Exponentiation	Raises a number to a power eg: 2**3 OR 2 ^3 (=23)	
Quotient/DIV	Gives the whole number after a division	
Remainder/MOD	Gives the remainder part of a division	
==	Is equal to	
lor (>	Is not equal to	
<	Is less than	
>	Is more than	
>=	Is more than or equal to	
<=	Is less than or equal to	

FILE HANDLING

Myfile=openRead("myfile.text")	Opens the file in read mode
Myfile=openWrite("myfile.text")	Opens the file in write mode
Myfile.writeLine ("Hello")	Writes a line to the file
Line1=myfile.readLine()	Reads one line of the file
Myfile.close()	Closes the file
endOfFile()	Used to determined the end of a file

PROGRAMMING CONSTRUCTS

A Sequence is when there are Sequence programming steps that are carried out one after another.

> Selection is where there are different paths in your code eg: IF, ELIF, ELSE

Iteration:

Iteration is when there is repetition (loops) in code. This could be a WHILE loop (do something WHILE a condition is met) or a FOR loop (do something for a set number of times)

This count-controlled loop would print "Hello World" 8 times .:

for i=0 to 7 print ("Hello") next i

These condition controlled loops would check if a password's correct:

while answer != "letmein123" answer=input("Enter password") endwhile

do

answer=input("Enter password") until answer=="letmein123"

STRING MANIPULATION

The characters in a string are numbered starting with position 0.

Function	Purpose	
x.length	Gives the length of the string	
x.upper	Changes the characters in the string to upper case	
x.lower	Changes the characters in the string to lower case	
x[i]	Gives the character in position i. Eg: x[2] = "r"	
x.substring(a,b)	Gives the characters from position a with length b. Eg: x.subString(1,2) = or	
*	Joins (concatenates) two strings together	

Using stimuli to develop ideas

There are a wide range of stimuli to choose from from which a devised work can be cracted. These includes

- · pictures
- # poetos
- # music
- a attates
- · ortefacts
- pointings



If its important to allow a limited line frame to discuss responses to the **starting point** or stimulus. Ask:

- Who are the target audience /
- What should be sold to them?
- What should be shown to them?
- . How should they feel by the end of the dramo?

From the very start of the process, ideas should be tried out practically. For example:

- create six tableaux immediately this could lead to other ideas
- write spontoneously for two minutes in response to the storting point
- share ideas
- Improvise atwo-minute scene without thinking or planning this could generate new ideas
- # set tosks
- · research the topic get images, facts, statistics, interviews, etc.
- explore real-life events and use spoken or written stories fram people - this may lift practical work to a higher standard.

When thinking about character and body, consistent he following points:

- What is the style of the piece being breated?
- · Hew might the character stand and move?
- What gestures and mannerisms do they employ?
- How can they use posture and body (anguage to physically tell the nountilled)
- . How will they walk amount the space!
- · Experiment with levers, lifts and proxemics.

Ideas to consider might installed

- experimenting with time France through use of flashback und Rashforward
- best arming a range of roles through multi-role play
- trying our cheral speaking as a group to get occuss important messages
- direct address (m) carrotion to your state— so your create an existe inspect on them.
- trying a miniment in slaw metion of all high guest to contrast with other parts of the piece

Do not implication of the importance and impact of states, and states are the inclusion of these can have varying effects on an equition and work expectably well to add tension or import.

Teamwork

It is important to early together us a separated commit algority to. that greats:

- * harrigran free
- # the processor
- ay yea to ode...
- # respect office agreement
- toke it in turns to lead a warm-up as direct a section of the place

At the very beginning of the decising, things will not be perfect. Remember the higger picture and lar position knowing that details contact the travel interior. Enough that are always evolving and experimenting with their libers can experience rathe success with their work.

Other Sent to by purch might include

- Chooging the passe of events in most the structure event interesting.
- · trains out monologues to different amountees
- Dumy most, and desiring a third section of efficies in General policy from
- experimenting with your use of space and levels within the petrol motion look e.
- moving constitting at the committee a syntheorisation to emphassions are seene.

If its most not to be willing in the good things, notice strongs and kneep are rescripting. It suited have to intend to others, steep out of the scene and watch it with the eye of a million freedy. Other also sinciscle.

- Trying some off-text improvisation also stall in characters of all the set is boarders, signification would they be like in the years.
 time, or seek or an footback?
- Trying the play in revise or exopping a printery over to see their through another pair of eyes.
- Seamosting the bub-back and a wear to it hebb. nor toler and him can the be emphasized?
- trot seating the characters of this is done while woulding ordered the space. If places less pressure on the persuit being making the questions and gives assume to assertions incomes.
- Thining but untkining it book to move impossements is one everything to learn and over, associal make seems size on the audience understand your in many place?
- Trying not one make multiply a world into over a driving make and could have a more by acquired to recely more the duther or equity.

Working as a team

responsibility. Everyone needs to know what they should be impossibility. Everyone needs to know what they should be impossed by which he east of the thoround the whole production. For this, good communication it is seen to the early stages of the production cycle, responsible to the early stages of the production cycle, responsible to the early stages of the production cycle, responsible to the early early and the early stages of the production cycle, responsible of the foreign early and early specific troop, going to the thattie metallicities and early and early and early sometiments of the early one of the early and safety sometiments to answer that everyone, including the condition is safety.

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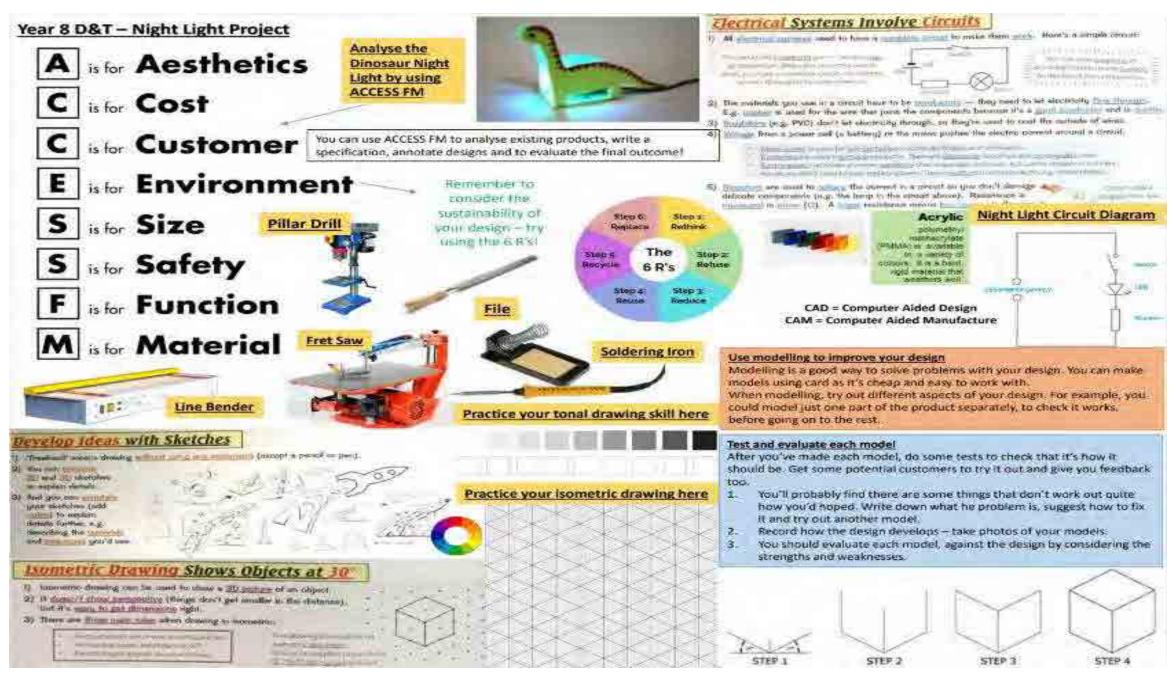
- # experiment with narration
- * notrespections to the third person
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- experiment with seandscapes to cream abnormation, response affined automatic Academia Lisa.

Blocking

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Drama Year 8 Term 5 & 6 Knowledge organiser



Dramatic	Dramatic Devices in Romeo and Juliet Mercutio and Benvolio think Romeo is still	Features of a Tragedy in Romeo and Juliet Tragic Hero - A main character cursed by fate and
Dramatic Irony	Mercutio and Benvolio think Romeo is still pining over Rosaline, but the audience knows he has moved on to Juliet. AZ \$1	Tragic Hero - A main character cursed by fate and possessed of a tragic flaw (Romeo, and to an extent Juliet).
Soliloquy	Juliet's opening speech in A3 52 in which she pours her heart out over her love for Romeo.	Hamartia - The fatal character flaw of the tragic hero (his passion and impulsiveness).
Aside	Juliet secretly hopes for the 'villain' Romeo: Villain and he be many miles asunder God pardon him! A3 55.	Catharsis - The release of the audience's emotions through empathy with the characters.
Foreshadowing	Friar Laurence: These violent delights have violent ends, And in their triumph die, like fire and powder. A2 56	Internal Conflict - The struggle the hero engages in with his/her fatal flaw.

∀⊗ Romeo and Juliet.pdf

Context - The play was written by William Shakespeare, and was first performed around 1594.

Elizabethan England and Italy -Shakespeare frequently engaged

century) yet was extremely popular in his lifetime, as it is now. Shakespeare borrowed heavily from two texts: *The Tragical History of Romeo and Juliet* (1562) and *Palace of Pleasure* (1567) career (the bulk of his tragedies were written in the 17th two monarchs: Queen Elizabeth I and James I. Romeo and Juliet was written relatively early in Shakespeare's Shakespeare's Time -Shakespeare wrote his plays at the time of



would have had a keen interest in; it was already an advanced and beautiful place for travel. Shakespeare's depictions of many areas of Italian life at the time are deemed largely accurate. Italy was a place that Shakespeare's contemporaries

with Italy in his plays, leading many to believe that he travelled there between the late 1580s and early 1590s.

the Capulets, who are quick to contemplate that Juliet is in a better place (heaven) after she is found 'dead.' (predominantly catholic or protestant). Several characters demonstrate their <u>commitment to the church</u>, such as Romeo and Juliet who choose to marry rather than fornicate, and society across Europe that was deeply religious several parts of Romeo and Juliet. This is reflective of a The heavy religious presence is evident across

were not permitted to own land or enter most professions. They were instead expected to bear children, be gentle and womanly. much of Europe, including Italy. Women belonged to their fathers (or brothers if their fathers had died) and then their Patriarchal Society —Society throughout the Middle Age and at Shakespeare's time was patriarchal — women were considered inferior to men. This was also the case in husbands, so Juliet would be expected to obey her father. Women

they are being guided by a supernatural force (e.g. 'fortune's fool) role of horoscopes and planet positions in being used to <u>predict fate</u>.

Also, Romeo and Juliet make reference to the fact that they feel today. The reference to 'star-cross'd lovers demonstrates the large Shakespeare, the belief in both astronomy and the supernatural was far more preeminent than in society Astrology the Supernatural – At the time of

the Capulets and Romeo that Juliet could have died so suddenly and so young. The high death count in the play would seem slightly more common in those days! Healthcare and Medicine — Healthcare and medicine were not as advanced in Shakespeare's age as they are today — there were numerous ailments and diseases that were not yet understood. This makes it much more believable for both

Main Characters - Consider what Shakespeare intended through his characterisation of each of the below

handsome and intelligent, yet he is also impulsive and extremely sensitive. Romeo is a peaceful character, and is not interested in the violence that goes on around him, choosing instead to focus his Rosaline at the outset) his commitment can't be debated in the end energies on love. Although Romeo's love seems fickle (he loves Romeo - The son and heir of Lord and Lady Montague, Romeo is

beautiful young girl (13 years old at the start of the play). Juliet is caring, compassionate, and at times demonstrates courage (she defies her parents in order to marry Romeo, and drinks the contents intelligence and wit, particularly in conversations with her mother. of the vial without fully trusting its effects). At times, she shows great Juliet - The daughter of Capulet and Lady Capulet, Juliet is a

ensuring that the peace is kept. He is merciful in banishing Romeo for the death of Tybalt, as opposed to sentencing him to death. authority to govern the other characters and administer sentences. He is also a kinsman to Mercutio and Paris. As the <u>seat of Verona</u>, his main concern throughout most of his appearances are in relation to First Scene: Act I Scene II Final Scene: Act V Scene III

Prince Escalus— The most powerful character in the play, with the

above the vices of love, choosing instead to view it as misplaced deal in puns and word-play. He appears to see himself as being friends. Mercutio is an extraordinary character in that he has sparkling wit and a vivid imagination. Much of Mercutio's speeches sexual appetite. His hot-headedness is eventually his downfall.

First Scene: Act I Scene IV Final Scene: Act II Scene I Mercutio - A kinsman to the prince and one of Romeo's closest First Scene: Act | Scene III Final Scene: Act V Scene III

First Scene: Act | Scene | Final Scene: Act V Scene III

Romeo chooses to walk the streets in melancholy rather than share his feelings with his father, and Capulet feels the best thing for Juliet would be a marriage with Paris. appropriately aware of their emotional wellbeing. For example Montague and Capulet – The <u>patriarchs</u> of the Montague and Capulet families, who have held a long and <u>violent feud</u> with one another from some time before the play begins. Both seem to deeply love their respective child, yet do not always seem

feud), whilst the Nurse is kind and sentimental (yet at times vulgar). She seems as though she is more of a mother to Juliet than Lady is <u>kind and civic-minded</u> (believing the marriage may heal the feud), whilst the Nurse is <u>kind and sentimental</u> (yet at times vul Capulet has ever been. in the world, as they are the two that they confide in. Friar Laurence Nurse act as <u>guidance counsel</u> for Romeo and Juliet. They appear to be the two people that Romeo and Juliet <u>trust</u> more than any others Friar Laurence and the Nurse – Both Friar Laurence and the

Themes - A theme is an idea or message that runs throughout a text

Love – In Romeo and Juliet, love is an extremely <u>overpowering</u> force that supersedes all other values, emotions, and loyalties. Through their love, Romeo and Juliet conspire to go against the forces of their entire social world. Romeo returns to visit Juliet at points, even though he is well aware of the threat of death. At times, love is presented as fickle (Mercutio's speeches, Romeo + Rosaline).

Individual vs Society – Romeo and Juliet are forced to undermine the <u>oppressive rules of society</u> at the time. For example, rules of the patriarchal family force Juliet to be subservient to her parents, rules of religion mean that they must marry in haste, and rules of masculinity

force Romeo into conflict with Tybalt.

Violence – Extreme violence takes place sporadically throughout the play. The <u>feud</u> between the two families is so bitter that the mere sight of each other can be the cause of a <u>fight to the death</u>. Unchecked violence is personified through the character of <u>Tybalt</u>. The violence culminates in <u>Act 3 Scene 1</u>, in which both Mercutio and Tybalt are murdered.

for their paths to cross, and that fate controls their actions. A series of <u>unfortunate accidents</u> towards the end of the play thwart Frian Laurence's plan and eventually manifest in both Romeo and Juliet committing suicide, thus adding to the sense of fate. Fate - In the first address to the audience, the Chorus states that Romeo and Juliet are 'star-cross'd' lovers, meaning that fate had intended



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Heat Eachange

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Heat can be exchanged in three WEYS

- · collid (ict)(ors):
- * constitutions
- radiation

Factors that affect food

Choice

Committee or common that products containinggluten

Lacrose intolerance - me body SAIN'S REGIST the aught factors IV dairy products.

Vegetarian: Ivo mess I in the clear Vegam No products from animula in the diet e.g. meat. milk achoney

Religion

islam Requires Halat meat, seerconol, no park

Judaism: Requires sosmerfood. no mest and dairy together, no more.

Hindulan: No beet

Vixamim and minerals are essential numents that your body needs in imali amounts to work properly

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Food Poisoning

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Signs of Food Spoilage-Many species of microorganism and some enzymes can cause food spollage.

	Suctoria	Yearst	Mould	Enzymes
Front Spottage	The bacteria Clostridium botulinum produces a toxin which causes meat preserves to bulge	Ferments sugarin pixes and beverages, making them sour, fizzy and foamy.	Create green, white or black toat on food products such as bread, grapes, tomatoes and jams.	Tums bananas, apples, potatoesans other foods brown.
	Bacteria can also make meat products look slimy and green in colour.			

Key words

Macrodiscours a servicine than a section.

THE REPORT OF THE PARTY OF THE PARTY.

from:

including high-risk foods.

Waste food and rubbish

Pest and rodents

☐ The cook's hand

Textily posse of plants / initial origin, a seeduly one produced by or derived frica mitimorganisme

President and a support of the second second

Fermalays - The process in which we sall produces the gas carbon blookids and



Past holidays 8.8 French Vocab list



les participes passés
irréguliers?
Faire → fait
Prendre → pris
Boire → bu
Voir → vu
Lire → lu
Vouloir → voulu
Dire → dit

Devenir → devenu

Avoir -> eu

Écrire -> écrit

Irregular past participles? To do → did To take → took To drink → drank To see → saw To read → read To want → wanted To say -> said To become → became To have → had To write → wrote

Quand?

De temps en temps Le lundi Hier Demain Bientôt A l'avenir Le week-end prochain La semaine prochaine L'année prochaine Dans un mois

When?

Aujourd'hui Today Normalement Normally Usually D'habitude Parfois/guelquefois Sometimes Pendant la pause/ le trajet During breaktime/the journey Le week-end On the weekend Après le collège After school deux fois par semaine Twice a week Often souvent Toujours Always Rarely Rarement From time to time

Yesterday Récemment Recently Le week-end dernier Last weekend La semaine dernière Last week L'année dernière Last year Il y a un mois A month ago

> Tomorrow Soon In the future Next weekend Next week Next year In a month

On Monday

Qu'est-ce que tu fais normalement?

Se reposer (je me repose) Se relaxer (je me relaxe) S'amuser (ie m'amuse) Se baigner (je me baigne) S'habiller (je m'habille) Se lever (je me lève) Se laver (je me lave) Se réveiller (je me réveille) S'entendre avec (je m'entends avec) Se brosser les dents/les cheveux (je me brossel Se doucher (ie me douche)

What do you do normally? To relax To relax To have fun To bathe To get dressed To get up To wash To wake up To get on with To brush teeth/hair To shower

Les opinions **Opinions** C'était It was ... Génial Great Fantastique Fantastic Intéressant Interesting Moving (emotionally) Touchant Inoubliable Unforgetable Incredible Incroyable Too short Trop court Ennuyeux/barbant Boring Trop long Trop long Passionnant. Exciting Émouvante Emotional Triste sad

Se maquiller (je me maquille) To put on make-up What was the weather like? Il faisait quel temps? Il faisait beau The weather was nice il faisait mauvais The weather was bad il faisait chaud It was hot il faisait froid It was cold It was grey / overcast It was cloudy

Il faisait gris il faisait nuageux il y avait du soleil It was sunny It was windy il y avait du vent il y avait du brouillard It was foggy il y avait de l'orage It was stormy il pleuvait It was raining il neigealt It was snowing il geleait It was icy

Past holidays 8.8 French Knowledge Organiser

Reflexive verbs, the perfect tense (past tense)



A **verb** is a doing, being or having word. e.g. to speak, to eat, to be. <u>Reflexive verbs</u> in French are verbs which usually mean an action done to yourself (e.g. straighten your hair, brush your teeth, etc.). Many are regular -er verbs and they need an extra <u>reflexive pronoun</u>.

Subject pronouns	Reflexive pronoun
je (I)	me
tu (you)	te
il (he), elle (she), on (we)	se
nous (we)	nous
vous (you) (pl)	vous
ils/elles (they)	se

The perfect tense:

You can talk about the past by using the perfect tense (le passé composé). The perfect tense has 3 parts:

- The subject pronoun (eg. Je,nous)
- 2. The auxiliary (avoir or être)
- 3. The past participle

To form the past participle, take off the infinitive endings (-er, -ir or -re) and add the following endings instead:

- -ER verbs > é
- -IR verbs> i
- -RE verbs > u

Examples:

J'<u>ai</u> achet<u>é</u> des baskets au centre commercial. I <u>have bought</u> trainers at the shopping mall.

Hier il <u>a</u> jou<u>é</u> au foot dans le parc. Yesterday he play<u>ed</u> football in the park.

Tu es alle en ville hier? You went to town yesterday?

The 2 auxiliary verbs are AVOIR or ÊTRE.

- Use AVOIR with most verbs.
- Use ÊTRE with reflexive verbs and DR. MRS VANDERTRAMP verbs. [Devenir (to become), Revenir (to come back), Monter (to go up), Retourner (to return), Sortir (to go out), Venir (to come), Aller (to go), Naître (to be born), Descendre (to go down), Entrer (to enter), Rentrer (to go home/to return), Tomber (to fall), Rester (to remain), Arriver (to arrive), Mourir (to die), Partir (to leave).]

Examples:

Se lisser les cheveux - to straighten one's hair
Je me lisse les cheveux > I straighten my hair
Se brosser les dents - to brush one's teeth
On se brosse les dents > we brush our teeth
Se doucher - to shower

Tu <u>te</u> douches le matin ou le soir? Do you shower in the morning or in the evening?

AVOIR	ÊTRE
J'ai	Je suis
Tu as	Tu es
Il /elle a	II /elle est
Nous avons	Nous sommes
Vous avez	Vous êtes
Ils /elles ont	Ils /elles sont

Remember!

When using être to form the perfect tense your past participle must agree with the subject pronoun.

Add -e if feminine e.g. elle est allée

Add -s if plural e.g. ils sont allés

Add –es if feminine plural eg. elles sont allé<u>es</u>

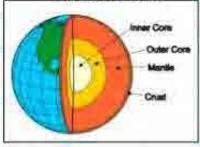
Keywords			
Natural hazard	A natural process that poses a threat to people and property		
Tectonic hazard	A hazard caused by tectonic plate movement		
Atmospheric hazard	A hazard in the atmosphere (hurricane, thunder and lightning, drought)		
Tropical storm	A very powerful, low-pressure weather storm (e.g. hurricanes, typhoons and cyclones)		
Plate boundary	The line between two plates, also known as a fault line		

Name of plate margin	Movement of plates	Hazards that occur	
Constructive		Volcanoes, earthquakes	
Destructive		Volcanoes, earthquakes	
Conservative		Earthquakes	

Year 8 Geography

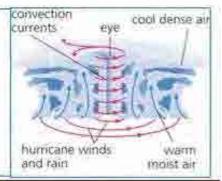
Why do people live in the danger zone?

Earth's structure



Tropical storms

- Large storms that can have winds up to 320mp/h
- Form in the tropics where the ocean is over 27°C.=
- Warm air rises and the Earth's spin causes the swirling pattern of clouds



Hazard	Japan 2011: an earthquake created a tsunami with waves up to 39 metres high	Afghanistan earthquake 2022: an earthquake of 6.2 magnitude occurred 4km below ground		
Primary	15,000 people killed and 6000 injured Ports and airports were damaged and closed	1150 people killed and 1600 injured 1900 homes destroyed and 10,000 homes suffered damage		
Secondary	4 years later 230,000 people were still living in temporary accommodation	Diseases such as cholera spread due to the cramped living conditions		
Immediate	A tsunami warning was issued 3 minutes after the earthquake Search and rescue experts flew out	Afghanistan military carried out search and rescue operations UN response teams sent trucks of supplies		
Long term:	Installed a new tsunami warning system	A team set up to review responses and create a plan to prepare for future emergencies		



Past Holiday! Year 8.4 German Vocab list

When?

Past particip	les
machen → g	emacht
nehmen > ge	enommen
trinken→ get	runken
sehen → ges	ehen
lesen → gele	esen
wollen → ge	wollt
sagen → gesa	agt
gehen → geg	angen
haben → geh	abt
fahren → ge	fahren
bleiben → ge	blieben
kaufen → ge	kauft
essen → geg	
besuchen ->	besucht

Past participles To do → did To take → took To drink → drank To see → saw To read → read To want → wanted To say → said To go → went To have → had To go → went To stay → stayed To buy → bought To eat → ate To visit → visited

heute normalerweise gewöhnlich manchmal Während der Pause/ der Reise am Wochenende nach der Schule zweimal pro Woche oft immer selten ab und zu Montags

gestern neulich letztes Wochenende letzte Woche letztes Jahr vor einem Monat morgen bald/früh in der Zukunft nächstes Wochenende

nächste Woche

In einem Monat

nächstes Jahr

Today. Normally Usually Sometimes During breaktime/the journey On the weekend After school Twice a week Often Always Rarely From time to time On Monday Yesterday Recently Last weekend Last week Last year A month ago Tomorrow Soon In the future Next weekend Next week Next year In a month

Was machst du normalerweise?	W
sich entspannen (ich entspanne mich)	To
Spaß haben (Ich habe Spaß)	To
schwimmen (ich schwimme)	To
sich anziehen (ich ziehe michan)	To
aufstehen (ich steheauf)	To
sich waschen (ich wasche mich)	To
aufwachen (ich wache auf)	To
auskommen mit (ich komme gut mitaus)	To
Ich putze mir die Zähne	11
sich duschen (ich dusche mich)	To
sich schminken (ich schminke mich)	To
	1000

What do you do on holidays?
To relax
To have fun
To swim
To get dressed
To get up
To wash
To wake up
To get on with
I brush my teeth
To shower
To put on make-up

Mentungen
Es war
toll/spitze
fantastisch
interessant
ergriefend
unvergesslich
unglaublich
zu kurz
langweilig
zu lang
Spannend
emotional
traurig

Meinungen

Opinions	
It was	
Great	
Fantastic	
Interesting	
Moving (emotional	ly)
unforgetable	
Incredible	
Too short	
Boring	
Trop long	
Exciting	
Emotional	
sad	

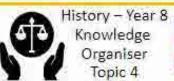
Wie war das Wetter?	What was the weather like?
Es war schön	The weather was nice
Es war schlecht	The weather was bad
Es war heiß	It was hot
Es war kalt	It was cold
Es war bewölkt	It was grey / overcast
Es war wolkig	It was cloudy
Es war sonnig	It was sunny
Es war windig	It was windy
Es war neblig	It was foggy
Es war stürmisch	It was stormy
Es hat geregnet	It was raining
Es hat geschneit	It was snowing
Es war frostig	It was frosty

Enquiry: How and why has democracy in Britain changed 1215-1928?

Today, in the United Kingdom, we live in a democracy, where laws are made by a Parliament that we have elected. However, this hasn't always been the case, we are going to be exploring how people in the UK have protested for their right to vote.

Key Events

1	15 June 1215 – The Magna Carta was signed by King John at Runnymede.		
2	22 August 1642 – 3 September 1651 – The English Civil War between the Parliamentarians and the Royalists over how England should be ruled.		
3	1688 - Glorious revolution ends absolute power of the monarch.		
4	16 th August 1819 - Peterloo Massacre – Cavalry charged at protesters wanted electoral reform.		
5	1832 – The Great Reform Act – Gave 40,000 extra men the vote, mostly just the middle classes.		
6	1838-1848 – The Chartists Movement – a series of petitions demanding equal voting rights for all men.		
7	1918 – Representation of the People Act was passed extending voting rights to all men over 21 and some women over 30.		
8	1928 – Representation of the People Act was passed extending voting rights to women over 21 bringing electoral equality.		





Historical Skills Focus

interpretation	A viewpoint or opinion.
change	What aspects of democracy changed and why. Considering rates/speed of change, the amount of change and which groups of people were effected by this change.
continuity	What aspects of democracy stayed the same and why.

Further your learning

Want to find out more about our journey to democracy: https://assets.parliament.uk/education/houses-of-history/main.html

Key Individuals

KA	W	ĪΘ	rn	11
3.77		-	6.53	

9.	propaganda	Information, can be biased or misleading, that promotes a political cause of point of view.
10	democracy	A form of government where the people have a say in how the government is run by voting.
11	reform	To make changes.
12	Suffrage	The right to vote in political elections.
13	Cavaliers	Supporters of King Charles I in the English Civil War – Royalists.
14	Roundheads	Supporters of the English Parliament in the English Civil War – Parliamentarians.
15	MP's	Members of Parliament – they represent voters.
16	charter	A document granting rights/privileges.
17	Suffragists	NUWSS – National Union of Women's Suffrage Societies – Campaigned non-violently for votes for women.
18	Suffragettes	WSPU – Women's Social and Political Union – a militant movement campaigning for votes for women.
19	Historical Significance	To evaluate what was significant about events, people, and developments in the past that had an impact towards changing the future



King John King Ch Magna Carta English



King Charles | Oliver Cromwell English Civil War English Civil War



Peterloo Massacre



William Lovett Chartist



John Frost William Cuffay Chartist Chartist



Millicent Fawcett Suffragist



Emmeline Pankhurst Suffragette



khurst Emily Davison Suffragette

Solid Geometry is the geometry of threedimensional space, the kind of space we live in.

There are two main types of solids, "Polyhedra". and "Non-Polyhedra"

Polyhedra

A polyhedron is a solid with flat faces Each face is a polygon (a flat shape with straight sides)

Examples of Polymerons

THE RESPONSE WAS A F.







to the current surfaces: some activities and uplication and but programme.

Note: the plural of polyhedron is either polyhedrons or polyhedra

Non-Polyhedra

Non-Polyhedra are solids where not all the faces are flat.









Vertices, Edges and Faces

A vertex (plural: vertices) is a point where two or more line segments meet. This is often called a corner,



This tetrahedron has 4 vertices



An edge is a line segment between faces.

For a polygon an edge is a line segment on the boundary joining one vertex (corner point) to another.



This Pentagon Has 5 Edges



For a polyhedron an edge is a line segment where two faces meet.

This Tetrahedron Has 6 Edges

A face is any of the individual flat surfaces of a solid object.

This tetrahedron has 4 faces (there is one face you can't see)



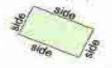
Prisms: A prism is a solid object with:

- Identical ends
- Flat faces
- The same cross section (found by cutting straight across an object) throughout

Sides

"Side" is not a very accurate word, because it can mean:

- An edge of a polygon, or
- A face of a polyhedron





Euler's Formula

For any polyhedron that doesn't intersect itself, then the number of faces (F), edges (E) and vertices (V) are linked using Euler's Formula

This can be written: F+V-E=2

Example: Cube

A cathe hales

- * 5 Pages
- * B Vertices (corner points)
- * 12 Edges

F+V-E+6+8-12-2

Area recap

The area of a shape is a measure of the two dimensional space that it covers.

Units include: cm2, mm2, m2

Shape Dimensions		Area formula
Square	a	a ⁴
Rectangle	€ h	lih
Parallelogram	h _{reary}	6hperp
Triangle		hh _{pree}
Trapezium		$\frac{(a+b)h_{perp}}{2}$
Circle	0	nr.

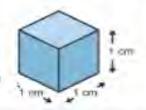
Volume

Volume is the amount of 3-dimensional space something takes up. You can imagine how much water would fit into a container.

Units include: litres, cm3, mm3, m3

Volume is measured in cubes.

A cubic centimeter is the volume within a cube that has sides of length 1cm. It has a volume of 1cm³ (1cm cubed).

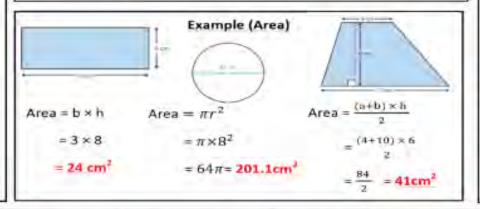


Cubes and Cuboids

This cuboid is made up of 12 cubes. Each cube is 1cm³ so the volume of this cuboid is 12cm³

To find out how many cubes are in a cuboid, we can multiply the width by the length by the height

In the cuboid above, we would do 2 × 2 × 3 = 12cm3



Volume of a prism The volume of a cuboid is width × length × height (V = w × l × h). We can also think of this as the area of the cross section (In green, which is w × h) × length So the Volume = area of the cross section × length The formula works for fill prisms.



Here is a triangular prism

pulsant of a cylinder - area of circle - length

pulsame of triangular prism = area of triangle = laught values of L-shaped prism = area of L-shape = laught



The area of the cross section (triangle) is $\frac{b \times h}{2}$

$$Area = \frac{5 \times 6}{2} = 15cm^2$$

Volume = area of cross section x length

CALCULATING ANGLES - TYPES OF ANGLE

Key Concepts

Regular polygons have equal lengths of sides and equal angles.

Angles in polygons

Sum of interior angles = $(number\ of\ sides - 2) \times 180$

Exterior angles of regular

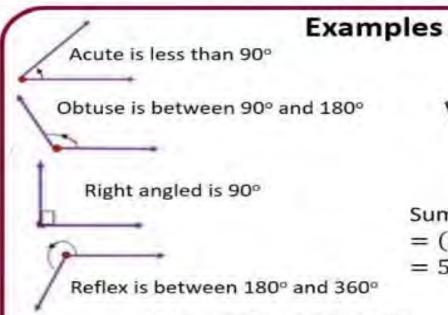
 $polygons = \frac{360}{number of sides}$

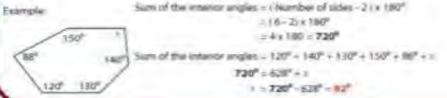
Types of angle

There are four types which need to be identified – acute, obtuse, reflex and right angled.

Key Words

Reflex, Polygon, Interior angle, Exterior angle, Acute, Obtuse, Right angle,





Regular Pentagon

Exterior angles

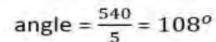
Interior

$$=\frac{360}{5}=72^{\circ}$$

Sum of interior angles

$$= (5-2) \times 180$$

= 540°



Name (Cont.)

Useful Links

https://vle.mathswatch.co.uk/vle/

https://corbettmaths.com/contents/

https://www.bbc.co.uk/bitesize/subjects/zqhs34j

Questions

- Calculate the sum of the interior angles for this regular shape,
- 2) Calculate the exterior angle for this regular shape.
- Calculate the size of one interior angle in this regular shape.

CALCULATING ANGLES

Key Concepts

Angles in a triangle equal 180°.

Angles in a quadrilateral equal 360°.

Vertically opposite angles are equal in size.

Angles on a straight line equal 180°.

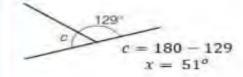
Base angles in an isosceles triangle are equal.

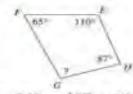
Alternate angles are equal in size.

Corresponding angles are equal in size.

Allied/co-interior angles are equal 180°.

x = 180 - (23 + 124) $x = 33^{a}$ (24)

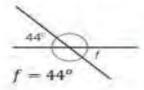


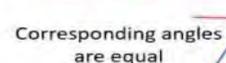


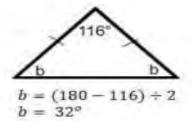
$$? = 360 - (65 + 110 + 87)$$

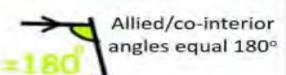
 $? = 98^{\circ}$

Examples









Alternate angles are

equal

Key Words

Angle, Vertically opposite, Straight line, Alternate, Corresponding, Allied Co-interior

Useful Links

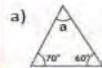
https://vle.mathswatch.co.uk/vle/

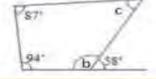
https://corbettmaths.com/contents/

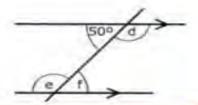
https://www.bbc.co.uk/bitesize/subjects/zqhs34j

Questions

Calculate the missing angle:

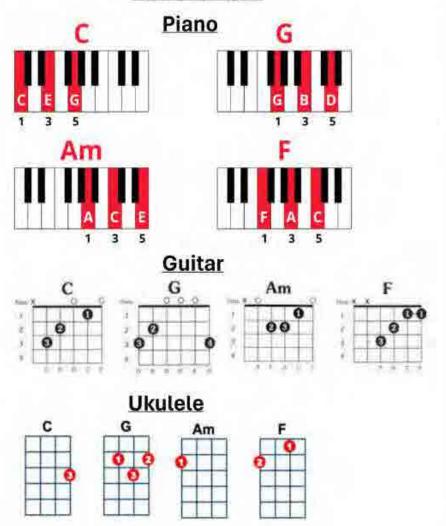




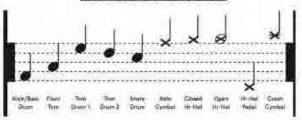


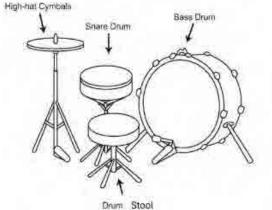
Music KO – Instrumental Skills

Chords



Drum Notation





Keywords

- Chords Multiple notes played at the same time
- Inversion Changing the order of notes in a chord
- Structure The order of sections in a piece of music
- Melody A string of notes one at a time, the melody is sung in a song
- Pulse The constant, steady beat in music that keeps different parts in time
- Riff a repeating musical pattern
- Frets The spaces between the metal bars on the neck of a guitar, ukulele or bass (Start counting from furthest away from the instrument body)



Pivometric training

- · Plyometric training improves power.
- It is used by sports performers such as sprinters, hurdiers, and netball, volleyball and basketball players.
- Plyometric exercises need maximal force as the muscle lengthens (eccentric action) before an immediate maximal force as the muscle shortens (concentric action).





Aerobic endurance training

Continuous

This involves training at a steady pace and moderate intensity for a minimum of 30 minutes.

Fartlek



Fartlek training involves changes in intensity.

Interval

This is where the individual performs a work period followed by a rest or recovery period.



METHODS OF

TRAINING

Circuit training

- Circuit training involves doing one exercise after another.
- Each exercise is called a station (usually 60-10 stations).
- Circuit training can be used to improve:
 - Muscular strength
 - Muscular endurance
 - o Power
 - Aerobic endurance



Weight training

- Improves muscular strength or muscular endurance.
- Free weights are weights that are not attached to a machine.

Muscular strength:

High loads and low reps

Muscular endurance:

Low loads and high reps

Elastic strength:

 Medium loads and medium reps 90% 1RM and 6 reps

50-60% 1RM and 20 reps

75% 1RM and 12 reps

Flexibility training

- Static stretching
 - Active stretching
 - Passive stretching



Ballistic stretching



 Proprioceptive Neuromuscular Facilitation (PNF)

Speed training

Hollow sprints



Acceleration sprints



Interval training





Evil and Suffering

Knowledge Organiser







NEED TO KNOW WORDS

Follow the orders of Allah Angels including protecting us from harm.

Atheist Someone who do not believe in a god

Something wicked and Evil immoral

The ability to make your Free will own choices

A belief that humans Humanist should be free to give meaning to their own lives.

Doesn't meet the accepted Immoral moral standard.

> The belief that our actions have consequences

Standards of good Moral behaviour

Karma

Moral evil Suffering caused by our behaviour (e.g. bullying)

Natural evil Suffering caused by nature (e.g. natural disasters)

Inconsistent triad: The problem of evil and suffering

Various types of evil and suffering are evident in the world. This can cause problems for many believers, as they believe in a loving, powerful and all-knowing God:

If God was all - knowing (omniscient), He would know that we were suffering. If God was all - powerful (omnipotent), He would be able to stop our suffering. If God was all -loving (omnibenevolent), He would want to stop our suffering,

We know evil and suffering exist so how can God exist?



Free Will

Free will is the ability to make choices and act upon them without being forced to do so. In many religions, people believe that God gives us free will so that we can make our own choices In life.

Sometimes, when we make choices that are not good, they can lead to negative consequences like sadness, pain, or suffering. However, God also gives us the ability to make good choices, and when we do, it can bring happiness and positive things into our lives.

So, while we might experience suffering or difficulties in life, it is not necessarily because God is punishing us. Instead, it can be a natural result of our choices or circumstances.

Soul making

The belief is that when we face challenges, we are given the opportunity to develop our character, cultivate virtues like courage, compassion, and perseverance, and deepen our relationship with God.

For example, when we face difficulties, we can learn to be more empathetic and understanding towards others who are going through similar experiences. Or, when we overcome obstacles, we can become stronger and more resilient, and learn to trust in God's guidance and grace.

So, even though pain and suffering can be difficult to bear, they can also be seen as opportunities for growth and transformation, and for strengthening our spiritual lives.

Life is a test

The idea that life is a test means that our time on earth is meant to challenge us and help us grow. It's like taking a test at school - we are given the chance to show what we know, and to learn from our mistakes.

In life, we are given the opportunity to choose between good and bad, and to act in ways that show our values and beliefs. By doing the right thing, helping others, and being kind and fair, we are passing the test and we can show that we are worthy of a good and happy life, and of eternal reward.



Evil and Suffering

Knowledge Organiser





NEED TO KNOW WORDS			
Nature	Characteristics we inherit from our parents		
Nurture	Influences from our environment		
Original Sin	inherited from Adam in consequence of the Fall		
Omnipotent	All-powerful		
Omnibenevolent	All-loving		
Satan	A force that tempts people from God		
Soul making	The idea that suffering helps us develop		
Suffering	the state of undergoing pain, distress, or hardship.		
Upbringing	the treatment and instruction received by a child from its parent (s) or caregiver throughout its childhood		

Nature	Nurture
Refers to the genetic traits and features that we inherit from our parents Includes things like eye colour, height, and personality traits Cannot be changed or controlled by us Plays a role in determining who we are and how we behave	Refers to the environmental factors that shape our development Includes things like our upbringing, social environment, and life experiences Can have a big impact on our beliefs, values, and behaviours Can be influenced and changed by us, and by the people and experiences around us

The Role of Angels in Islam

Angels are spiritual beings in Islam who are created by God to carry out various tasks. They are believed to have no free will and always obey God's commands.

According to Islamic teachings, angels are responsible for many things, including recording people's good and bad deeds, guarding and protecting humans, and communicating messages from God to His prophets.

Angels do not cause suffering or allow it to happen. Instead, it is believed that God allows suffering to occur for a variety of reasons, including to test people's faith, to help them grow and learn, and to bring about a greater good.

Karma in Buddhism and Hinduism

Karma is a concept in Hinduism, Buddhism, and other religions that suggests that our actions have consequences, and that what we do in this life will affect our future lives.

The idea is that every action we take whether good or bad - creates a kind of energy that will eventually come back to us in some way. This energy can affect our future lives, either positively or negatively, depending on the nature of our actions.

For example, if we do good deeds, we create positive karma that can lead to good things happening to us in the future. On the other hand, if we do bad deeds, we create negative karma that can lead to negative consequences.

The story follows a man named Job, who is a faithful servant of God. One day, Satan challenges God, saying that Job only loves and serves God because he has a good life. God allows Satan to test Job's faith by taking away everything he has, including his family and his possessions.

Despite all the suffering he endures, Job remains faithful to God and refuses to curse Him or give up his faith. In the end, God rewards Job's faithfulness by restoring everything he lost and giving him even more than he had before.

The Book of Job teaches us that suffering is not always a punishment for something we have done wrong. Sometimes, good people suffer for reasons that we may not understand, and it is important to trust in God and remain faithful, even in the face of hardship.

1. Photosynthesis in Plants

Animals need to eat food to get their energy. But green plants and algae do not. Instead they make their own food in a process called photosynthesis. Almost all life on Earth depends upon this process. Photosynthesis is also important in maintaining the Levels of oxygen and carbon dioxide in the atmosphere.

Word equation

carbon dioxide + water -> glucose + oxygen

from the air

from the ground

their food refeased into

Balanced symbol equation 6CO₅ + 6H₂O → C₆H₁₂O₆ + 6O₅

4. Habitats and Ecosystems

An ecosystem consists of communities of different living things, in single species populations living in their habitats. Examples of these include habitats include coral reefs, marshes and lakes. All the living things (biotic factors) and non-living things (abiotic factors) in an ecosystem depend upon each other for survival. This interdependence includes through feeding, pollination.



6. Food Chains/Biomass

A food chain shows the different species of an organism in an ecosystem, and what eats what. Organisms at each level have different terms:



The population of each organism in a food chain can be shown in a bar chart called a pyramid of numbers or a pyramid of biomass where the bars are drawn to scale. Energy is lost to the surroundings as we go from one level to the next, so there are usually fewer organisms at each level in this food chain.

2. Location of photosynthesis in plants

Photos ynthesis takes place inside the chloroplasts of the plant cells, these contains green pigment, chlorophyll. This absorbs the light energy needed to make photosynthesis happen. The leaf is a plant organ adapted to carry out photosynthesis. The table describes some of its adaptations.

Thin	a short distance for CO2 torrowe by diffusion
Chlorophyil	Absorbs light
Stomata	Allows CO2 to move in by diffusion.
Guard cells	open and close the stomata depending on the conditions
Tubes	To transport water (xylem) and glucose (pbloem)

KS3 Science

Photosynthesis and Ecosystems

7. Food Webs

When all the food chains in an ecosystem are joined up together, they form a food web. Although it looks complex, it is just several food chains joined together. This leads to some interesting effects if the population in the food web decreases.

Some animals can just eat

more of another organism if food is in short supply, while others may starve and die. This in turn can affect the populations of other organisms in the food web.



3. Measuring the effect of light intensity on photosynthesis

Method:

- Leave for five minutes for the pondweed to acclimatise to the new
- Count the number of bubbles given off in one minute.
- 3. Move the light 10 cm further back.
- Leave for five minutes for the pondweed to acclimatise again.
- Count the number of bubbles given off in one minute.
- 6. Repeat by moving the

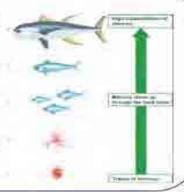
lamp away by 10 cm intervals until 50 cm is reached.

5. Sampling Techniques

Sampling is done to look at the organisms in a population within an ecosystem in a practical way as counting each one individually is not always feasible. This is usually done using quadrats which marks offsmall areas to then use to estimate the population. A quadrat is usually a square made of wire. It may contain further wires to mark off smaller areas inside, such as 5 × 5 squares or 10 × 10 squares. The organisms underneath, usually plants, can be identified and counted. Quadrats may also be used for slow-moving a nimals, eg slugs and snails.

8. Pollution and Pesticides

Some pollutants (including pesticides) quickly break down in the environment whilst others do not. These bio-accumulate in the food chain and damage the organisms in it. The predators at the end of the chain are most effected because compounds cannot be excreted and travel up the food chain.



1. Composition of the Earth

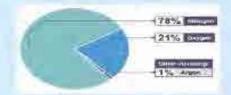
The Earth's crust, it's atmosphere and the oceans are the only sources of natural resources for human life!

The Earth has four layers:

- Crust (thin and rocky)
- Mantle (properties of solid but flows easily)
- Outer core (made from nickel and Iron)
- Inner core (made from nickel and iron)

4. Composition of the Today's Atmosphere

Nitrogen is the most abundant gas in today's atmosphere at 78%. Today's atmosphere contains 21% Oxygen and 1% Argon.



5. Fossil Fuels

About three-quarters of the electricity generated in the UK comes from power stations fuelled by fossil fuels. Energy from the burning fuel is used to boil water. The steam turns turbines, and these turn electrical generators.

2. Composition of the Early Atmosphere

The Earth's early atmosphere was composed of 95% carbon dioxide, 4% water vapour and 1% of trace gases which included Nitrogen, Ammonia and Methane.



KS3 Science
Earth & Atmosphere

6. Generating Electricity

Crude oil, coal and gas are fossil fuels. They were formed over millions of years from the remains of dead organisms. Coal was formed from dead trees and plant matter. Crude oil and gas were formed from dead marine organisms.

3. Evolution of Atmosphere

In the 4.5 billion years since the Earth formed it's atmosphere has changed considerably. This has happened in three main stages:

Stage 1 - Volcanoes:

The majority of the early atmosphere was carbon dioxide and water vapour. This was produced by volcanoes. After a time the water vapour condensed and formed the oceans.

Stage 2 - Green plants:

Green plants and algae evolved and used the carbon dioxide for photosynthesis. They also produced oxygen. Basic organisms evolved that were able to use the oxygen.

Stage 3- Complex animals:

The oxygen allowed more complex organisms to form. The ozone layer formed and this allowed further evolution of complex organisms.





7. Non Renewable Energy Sources

Non renewable energy sources include fossil fuels such as coal, oil and natural gas. These sources are a finite resource, which means when they have been used up, they cannot be replaced. Worryingly, humans are using them faster than they are forming!

10. Carbon Cycle

All cells - whether animal, plant or bacteria - contain carbon. Carbon is passed from the atmosphere (as carbon dioxide) to living things, passed from one organism to the next and returned to the atmosphere as carbon dioxide again. This is known as the carbon cycle.

12. Carbon Cycle

Step 3: Passing carbon from one organism to next When an animal eats a plant, carbon from the plant becomes part of the fats and proteins in the animal. Microorganisms and some animals feed on waste material from animals, and the remains of dead animals and plants. The carbon then becomes part of these microorganisms and detritus feeders.

Step 4: Returning carbon dioxide to the atmosphere When fossil fuels are burned (combustion) in factories or transportation, carbon is released into the atmosphere as carbon dioxide gas.

8. Renewable Energy Sources

Scientists are trying to find alternative methods of generating electricity using renewable energy sources.

These are energy sources that will not run out or produce carbon dioxide and other greenhouse gases. They are 'cleaner' and more sustainable although they do come with advantages and disadvantages.

KS3 Science

Earth & Atmosphere

13. Greenhouse Effect

The greenhouse effect is when greenhouse gases (carbon dioxide, methane and water vapour) in the Earth's atmosphere trap radiation from the sun and heat up the planet. Without the greenhouse effect the Earth would be too cold for us to survive on it.



9. Renewable Energy Resources

Resource	Adv.	Disadv.
Wind	no CO ₂	Unsightly, not always windy
Solar	No CO ₂	Expensive, not always sunny
Hydroelectric	No CO.	Destroys habitat
Geothermal	No CO2	Specific locations

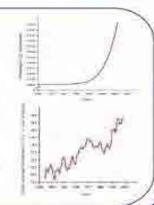
11. Carbon Cycle

Step 1: Removing carbon dioxide from atmosphere Green plants remove carbon dioxide from the atmosphere by photosynthesis. The carbon becomes part of complex molecules such as proteins, fats and carbohydrates in the plants.

Step 2: Returning carbon dioxide to atmosphere Organisms return carbon dioxide to the atmosphere by respiration. It is not just animals that respire. Plants and microorganisms do, too.

14. Global Warming

The extra greenhouse gases released by human activity lead to the enhanced greenhouse effect. More heat is trapped by the atmosphere, causing the planet to become warmer than it would be naturally. The increase in global temperature this causes is called global warming.



Year 8 Block 4 Biology Knowledge Organiser Ecosystems

Revision guide Pgs: 23-24 + 28

https://www.bbc.com/bitesize/subjects/z4882hv

KP18.1: Describe feeding relationships and food webs, and explain how a changing environment may affect them.

All food chains start with a green plant, producers. Arrows point to the eater and show the flow of energy in a food chain. Each stage is called a trophic level.

mahogany tree → caterpillar → song bird → hawk maize → locust → lizard → snake



The first eater in a food chain is called the **primary consumer** and is a herbivore.

The next organism is the **secondary consumer** and the next is the **tertiary consumer** and this is usually the **top carnivore**.

Food chains do not go on indefinitely as energy is lost at each stage of the food chain. Some of the available energy goes into growth and the production of offspring. This energy becomes available to the next stage, but most of the available energy is used up in other ways: in respiration, keeping warm, movement and waste materials, such as faeces.

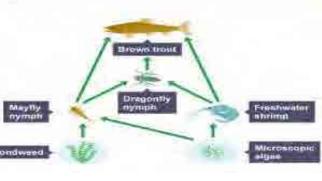
All of the energy used in these ways returns to the environment, and is not available for the next stage.

Key Terms	Function	
Herbivore	Organism eats plant only, prey organisms	
Carnivore Organism eats other organisms, they hunt p		
Omnivore	Organism eats both plant and animals	
Primary consumer	The first eater in a food chain	
Secondary consumer	The second eater in a food chain	
Tertiary consumer	The 3 rd organism feeding in the food chain, usually the top carnivore	
Trophic level Stages in the food chain e.g producers, or prin		
Bioaccumulation	The build up of toxic substances in the food chain, affecting organisms at the top of food chains	
Ecosystem	A community of interacting organisms and their physical environment	



Food chains show a simplistic view of who's eating who in an ecosystem. Organism seat more than 1 food so food chains link together to make food webs.

Removinganorganismor addinganorganism to a food chain can have big implications on other organisms.



Year 8 Block 4 Biology Knowledge Organiser Ecosystems

Revision guide Pgs: 23-24 + 28

https://www.bbc.com/bitesize/subjects/z4882hv

KPI8.1: Describe feeding relationships and food webs, and explain how a changing environment may affect them.

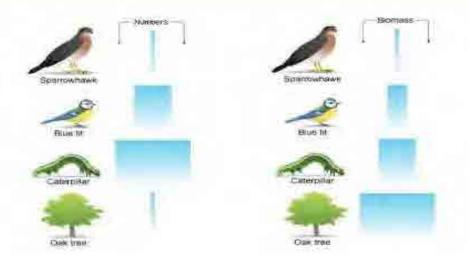
Pyramids of numbers and biomass

Pyramids of numbers show how many organisms are at each **trophic level**. The width of each box represents the number of organisms.



Pyramids of number can end up odd shapes when 1 producer is large in size e.g one tree that supports lots of tiny organisms e.g aphids.

Pyramids of biomass show more accurately what is happening to the energy in a food chain than pyramids of number do. Pyramids of biomass are always pyramid shaped.



Key Terms	Function	
Herbivore	Organism eats plant only, prey organisms	
Carnivore	Organism eats other organisms, they hunt prey for their dinner	
Omnivore	Organism eats both plant and animals	
Primary The first eater in a food chain consume r		
Secondary consumer	The second eater in a food chain	
Tertiary consume The 3rd organism feeding in the food chair usually the top carnivore		
Trophic level	Stages in the food chain e.g. producers, or primary consumers	
Some toxic substa chains.	The build up of toxic substances in the food nessline pastering organism shattere top of food chains	

Organisms near the bottom of the food chain absorb them in small amounts. The concentration in these organisms is too low to cause significant harm. However, as these organisms cannot excrete these substances, when they are eaten by others higher up the food chain, the concentration becomes more toxic and eventually causes harm. DDT is an example of a pesticide that was used and built up in the food chain.



Year 8 Block 4 Biology Knowledge Organiser Ecosystems

Revision guide Pgs: 23-24 + 28

https://www.bbc.com/bitesize/subjects/z4882hv

KP18.2: Explain how variation allow organisms to compete, and the way this drives natural selection

Organisms compete for resources like food, water, mates, space, light, and minerals.

There are 2 types of competition. Interspecific competition is between individuals of different species and Intraspecific competition is between individuals of the <u>same</u> species.



Organisms have special features known as **adaptations** to help them survive in their environment. For example polar bears are white so they are carnouflaged in the snow.

Variation

Variation can be caused by genes e.g. eye colour and your blood group. It can also be caused by environment which means the food you eat, the chemicals you're exposed to, the way you're brought up. Often variation is a combination of genes and environment e.g. intelligence and weight. Genetic variation always gives rise to discontinuous data where there is a limited set of data e.g. tongue roller or non roller.

Continuous data can be of any value and is caused by genetic and environmental factors.

Key Terms	Definition	
Interspecific competition	Competition between individuals of different species	
Intraspecific competition	Competition between individuals of the same species	
Camouflaged	When an organisms blends in to their environment	
Variation	Differences between organisms caused by genetics, environment or both	
Continuous variation	This variation has no limit on the value e.g. height	
Discontinuous variation	This type of variation hasset categories or alimited set of values e.g. eye colour and is caused by genetic factors	
Naturalselection	The process where by organisms better adapted to their environment tend to survive and produce more offspring	

Natural selection

Natural selection states that there is variation within aspecies.

Some adaptations are better than others. Those with the best adaptations survive, and the others die.

The survivors can reproduce and have offspring.

Their offspring inherit the genes for the best adaptations, so the organisms population changes over time. This is survival of the fittest. Charles Darwin came up with this theory in the 1800's.

Natural Selection

1) Each species shows variation:



There is competition within each

species for food, living space, water, mates etc.

 The "hetter adapted" members of these species are more likely to survive —"Survival of the Fittest"





 These survivors will pass on their better genes to their offspring who will also show this beneficial variation.

7.4 Spanish Free Time Knowledge Organiser

Sports and other hobbies with opinions + inf. including. jugar and hacer 'Weather.



Llevar, vivir & comer are a regular verbs which follow the pattern below. The verbs "jugar" and "hacer" are irregular but important verbs, especially for this topic on sports.

Pronouns	Estudiar – to study	vivir- to live	comer- to eat
Yo (I)	Estud <mark>io</mark> – I study	Vivo- I live	Como – I eat
tú (you)	Estudi <mark>as</mark> – you study	Vives – you live	Com <mark>es</mark> – you eat
el (he), ella (she),	Estudi <mark>a</mark> - He/she studies	Vive - He/she lives	Come – he/she eats
nosotros (we)	Estudi <mark>amos</mark> – we study	Viv <mark>imos</mark> – we live	Com <mark>emos</mark> – we eat
vosotros (you) (pl. or formal)	Estudi <mark>áis</mark> – you study (pl. or formal)	Vivis – you live (pl. or formal)	Com <mark>éis</mark> – you eat (pl. or formal)
Ellos/ellas (they)	Estudi <mark>an</mark> – they study	Viven – they live	Comen – they eat

How to improve your writing?

When writing in Spanish, you can make your sentences better by adding the following:

- Range of opinions and reasons
 Rather than just using 'yo', write verbs using other pronouns
- · Connectives to extend your sentences
- Qualifiers e.g. muy, bastante
- Comparisons

Hacer– to do

Yo hago - I do Tu haces – you do Él/ella hace – he/she does Nosotros hacemos –we do Vosotros hacéis – you (pl) do Ellos hacen – they do

Jugar – to play

Yo juego- I play Tu juegas – you play Él/ella juega – he/she plays Nosotros jugamos –we play Vosotros jugáis – you (pl) play Ellos/ellas juegan – they play

Now you should be able to create some of your own questions using the question words below. Don't forget the upside down question mark at the beginning of a question.

¿Cuándo? – When? ¿Quién? – Who? ¿Dónde? – Where? ¿Cuántos? – How many? ¿Qué? What? ¿Cómo? – How? ¿Por qué? – Why? ¿Cuál? – Which?



7.4 Free time SPANISH





	¿ Qué deporte te gusta?	What sport do you like?
,	Jugar al fútbol	To play football
3	Jugar al rugby	To play rugby
ij.	Jugar al tenis	To play tennis
P	Jugar al golf	To play golf
b	Jugar al voleibol	To play volleyball
à,	Jugar al baloncesto	To play basketball
5	Hacer ciclismo	To do some cycling
	Hacer esquí	To do some skiing
1	Hacer patinaje	To do some ice skating
	Hacer natación	To do some swimming
Ď.	Hacer gimnasia	To do some gymnastics
	Hacer equitación	To do some horse-riding
ø	Hacer atletismo	To do some athletics
11	Marine State of the State of th	

¿ Qué te gusta ver?	What do you like to watch?
Me gusta ver	I like to watch
Las noticias	The news
Comedias	Comedies
Dibujos animados	Cartoons
Documentales	Documentaries
Programas	Programmes
Telenovelas	Soap operas
Películas románticas	Romantic films
Peliculas de acción	Action films
Peliculas de terror	Horror films
Peliculas policiacas	Detective films
Concursos	Game shows
Series	Series

/Chando?	When?
Normalmente	Normally
Generalmente	Generally
Todos los días	Every day
Dos veces a la semana	Twice a week
De vez en cuando	From time to time
Rara vez	Rarely
Cuando puedo	When I can
Jamás/nunca	Never
A veces	Sometimes

	¿Que tiempo hace?	What is the weather like?
	Hace buen tiempo	It is good weather
r	Hace calor	It is hot
è	Hace sol	It is sunny
3	Hace frio	It is cold
1	Hace 25 grados	It is 25 degrees
-	Hace mal tiempo	It is bad weather
100	Llueve	It is raining
-	Nieva	It is snowing
W.	Hay viento	It is windy
43	Hay nubes	There are clouds
0	Hay tormenta	There are storms

REMEMBER

Any practical work you do at home, take photos and this can be classed as homework If there is evidence in your nomework book!

Applique is the method of sewing pieces of fabric onto other fabric bases in beautiful designs. You can stitch the applique pieces by hand as well as by sewing machine.

Decorative Textile Techniques



Spray dying creates a speckled, graffiti effect on fabric... Try not to spray too close as it will not have the same effect on the fabric.





Dyeing involves adding colour to the fabric by way of soaking it in a solution of dye. You can dye a fabric fully or partially Batik, tie and dye. shibori dveing are all variations of dyeing fabric to bring about beautiful patterns on fabric surface.



Rubbings use natural textures to create interesting designs on to fabric, layer different colours to make your design more original.

Shaving foam marbling is a method of creating a marble effect, using shaving foam and acrylic paints. You can mix colours together to create a colourful design. Be careful not to overmix as this could result in to getting an all over brown colour.



Decorative stitches

are created by selecting different stitch settings on a sewing machine, these are good to use in different colours to match your creative work. They can be sewn in a curved line as well as just sewing straight.



Year 8 Textiles Knowledge Organiser



Textiles Hierarchy of Key words

Plain seam analyse sustainable embellishment Woven/bonded/knitted function Free machine develop embroidery

The 4 Rs of sustainability

The UK wastes around £1 billion of clothing each year, which effects the environment we live in. A way to support the environment is to follow the four Rs of sustainability at home.

Recycle - Making unwanted clothing in to something new i.e. Jeans in to shorts.

Reduce - Buy high quality clothing which will last for longer.

Repair - If there is a rip or hole in your clothing, fix it by hand sewing it or adding a patch.

Reuse - If you no long want your clothing, donate it to a sibling or local charity shop.

Complementary colours Tier 2 Valuable keywords used in most lessons every lesson. contrast environment fastening embroidery compare equipment iron context appliqué effect improve design shape colour Basic keywords used in almost every lesson machine Texture pattern line tone theme Fabric thread

sew

Use these in your writing and speaking

Use connectives to link each paragraph!	Explain an idea: Although Except Unless However Therefore	Sequencing: Firstly Secondly Next Finally Since			
Adding to: Furthermore Also As well as Moreover	Cause and effect: Thus So Therefore Consequently	Whereas Instead of Alternatively Otherwise Then again			
To empathise: Above all Ultimately Especially Significantly	To compare: Likewise Equally In the same way Similarly	Give examples: Such as For example			





I believe that... I think that...

The main idea is...

EXPLAIN ®



This means that...

Therefore...

This maybe because...

JUSTIFY



This is positive because...
This is negative because...

It is useful/not useful because...

ANALYSE



One strength is...
One weakness is...

One argument is...

EVALUATE

One advantage is...
One disadvantage is...

The best option is...

COMPARE AND CONTRAST



One similarity is...
One difference is...

On the other hand...

Sentence starter phrases

Most people would agree...

Only a fool would think...

We all know...

A sensible idea would be...

The fact is that...

Surely you would agree that...

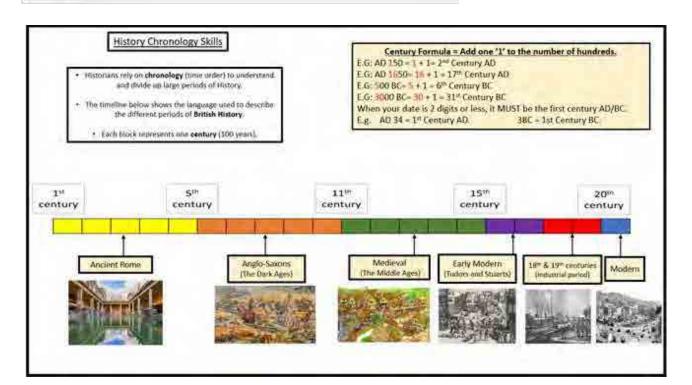
Without a doubt...

I am certain that...

Some people might argue...

However...

Also...



Use these in your writing and speaking in DT



Design and Technology Keywords

Food and Nutrition	Design and Technology	Textiles				
Caramelisation	Carbon footprint	Plain seam				
Aeration Amino acids Plasticity Shortening	Planned Obsolescence Iterative Design Tolerance	analyse sustainable embellishment				
Denaturation Coagulation	Technology Push Anthropometrics	Woven/ bonded/ knitted				
Gelatinisation	Consumer Social Footprint	Free machine function				
Emulsification Pasteurisation	Ergonomics Forming Processes	embroidery develop				
Unsaturated Protein Radiation Saturated	Aesthetics Target Market	Complementary colours contrast environment				
Carbohydrates	Properties Deciduous	fastening				
Conduction Deficiency Digest Convection	Coniferous Automation Functionality	compare embroidery equipment				
Cross-contamination	Primary Source Sustainability	context appliqué				
Micro-organisms	Continuous Improvement	effect improve				
Flavour Claw grip	Cost Customer	colour design shape				
Texture Aroma	Materials Annotation	machine				
Nutrients Energy	Product Safety	pattern line Texture tone				
Appearance Bridge hold	Design Environment	theme Fabric				
Mix Smell	User Prototype	thread sew				







Sentence Starters - DT

I have designed...because
My project was about...

I found... during my research

My design is suitable for...

I have learnt how to...

The most enjoyable part of my project was....

The area I found the most challenging was...

Equipment I have used include...

I would improve my work by...

I am pleased with my finished product because...

Sentence Starters- Food and Nutrition

In order to work hygienically/safely I made sure I

I worked safely when in the kitchen by...

If I could improve any skill, I would improve...because...

Overall, I am happy/unhappy with my progress/dish because....

The texture of my dish is... this is because...

Sentence starters- Textiles

I have designed....

The context of my design is...

My research is useful because...

By researching, I am able to.....

By researching I have found out....

I researched into....

My design is suitable for.....

My design is based upon...

I have planned to..

The order I will work in is...

The most enjoyable part of m project was...

The area I found most challenging was...

I am most pleased with...

I am pleased with my finished project

because...

Equipment I used was...



The periodic table of the elements

1	2			Key			H Hydrogen					3	4	.5	6	7	0 He return 2
7 Li 10 mm	9 Be beryllum 4		ato	ve atomic omic sym	bol							11 B toron 5	12 C anton	14 N ntrogen 7	16 O oxygen 8	19 F Monre 9	20 Ne neon 10
23 Na modern 11	24 Mg magnesium 12											27 Al minimum 13	28 Si 14	31 P phosphoros 15	32 \$ ***** 16	35.5 CI chierem 17	40 Ar ***********************************
39 K pomplum 19	40 Ca caldium 20	45 Sc sundam 21	48 Ti 99mim 22	51 V stredum 23	52 Cr cr cr cr cr cr 24	55 Mn 25	56 Fe	59 Co	59 Ni nicial 28	63.5 Cu 29	65 Zn arc 30	70 Ga onlian 31	73 Ge germanium 32	75 As mente 33	79 Se selstam 34	Br browne 35	84 Kr krypton 36
85 Rb nessure 37	88 Sr stordam 38	89 Y yman 39	91 Zr zrozniam 40	93 Nb richum 41	96 Mo 100/Marum 42	[98] Tc technetism 43	101 Ru Mariani 44	103 Rh modum 45	106 Pd paladum 46	108 Ag 47	112 Cd codmium 48	115 In In Indum 49	119 Sn 50	122 Sb artimory 51	128 Te Influence 52	127 1 lodne 53	131 Xe 2010n 54
133 Cs 55	137 Ba berum 56	139 La* latharum 57	178 Hf hatrium 72	181 Ta tensium 73	184 W targaten 74	186 Re mesum 75	190 Os 3676	192 Ir maum 77	195 Pt putnum 78	197 Au god 79	201 Hg	204 TI haller 81	207 Pb	209 Bi 83	[209] Po 84	[210] At 85	[222] Rn ***********************************

The relative atomic masses of copper and chlorine have not been rounded to the nearest whole number.

^{*} The elements with atomic numbers from 58 to 71 are omitted from this part of the periodic table.









These websites will help you with homework, reading around the subject and revision

English

https://www.sparknotes.com/ - Macbeth, A Christmas Carol, An Inspector Calls
https://app.senecalearning.com/ - Macbeth, A Christmas Carol, An Inspector Calls,
Power and Conflict Poetry

https://www.bbc.com/bitesize - Macbeth, A Christmas Carol, An Inspector Calls

Maths

https://corbettmaths.com/

https://vle.mathswatch.co.uk/vle/

https://www.mathspad.co.uk/

Science:

https://www.bbc.com/bitesize

https://www.senecalearning.com/

https://www.memrise.com/

Geography

Time for Geography - videos (mainly focused on physical processes)

Bitesize

Cool Geography

History

Seneca Learning

BBC bitesize - use Edexcel resources for GCSE.

Art Websites

https://www.tate.org.uk/

https://www.bbc.co.uk/bitesize/subjects/z6f3cdm

https://www.incredibleart.org/

Computer Science and IT.

www.mrahmedcomputing.co.uk

Drama

https://youtu.be/VeTpob9LBM8

https://youtu.be/wISEU13mRBE

https://www.bbc.co.uk/bitesize/guides/zsf8wmn/revision/1

DT:

http://www.mr-dt.com/

http://technologystudent.com/

https://www.senecalearning.com/

<u>PE</u>

https://www.bbc.com/bitesize/examspecs/ztrcg82 https://sites.google.com/view/ocrgcseperevision/home

RS

KS3 https://www.bbc.co.uk/bitesize/subjects/zh3rkgt

<u>Timetable</u>

Monday	Tuesday	Wednesday	Thursday	Friday
:				
	Monday	Monday Tuesday	Monday Tuesday Wednesday	Monday Tuesday Wednesday Thursday