Home Learning Booklet



Knowledge Goals Year 9 Half Term 3

How to self-test

Mind mapping

- Mind mapping is simply a diagram to visually represent or outline information.
- Use information gathered from your knowledge goals booklet to create mind maps, make sure to use colour and images, keep writing to the bare minimum.

How to mind map:



Information for parents on knowledge retrieval



Flash cards

Use your knowledge goals booklet to make flash cards. Write the questions on one side and on the other record the answer. Test yourself or work with a friend to make sure you know all the key information for each topic.

How to mind map:



How should students use the Knowledge Goals booklets?

Your Knowledge Goals booklet provide the essential knowledge that you need to learn in each subject this half term. You are **expected to spend 30 minutes per subject per week 'learning' the content**. You will be assessed during lessons using 'low stake' quizzing. **Your teacher may choose to set you additional homework.**

How can parents support?

- Read through the organiser with your child if you don't understand the content then ask them to explain it to you 'teaching' you helps them to reinforce their learning.
- Test them regularly on the spellings of key words until they are perfect. Get them to make a glossary (list) of key words with definitions or a list of formulae.
- Read sections out to them, missing out key words or phrases that they must fill in. Miss out more and more until they are word perfect.

Subject Index

Suggested Homework Schedule (1 hour of independent study per night).

To help you get organized, we have planned out your weekly home learning to cover all subjects. You may choose to create your own version:

Week A

Day	Subject 1 (20mins)	Subject 2 (20mins)	Subject 3 (20mins)
Monday	Art	English Language	Physics
Tuesday	Biology	Technology	Maths
Wednesday	Chemistry	Spanish	Music
Thursday	Computer Science	Geography	RS
Friday	Design Technology	History	PE

Week B

Day	Subject 1 (20mins)	Subject 2 (20mins)	Subject 3 (20mins)
Monday	Drama	Personal Development	Teir 2 Vocab
Tuesday	Maths	English	Physics
Wednesday	Chemistry	English	Music
Thursday	Teir 2 Vocab	Maths	Biology
Friday			

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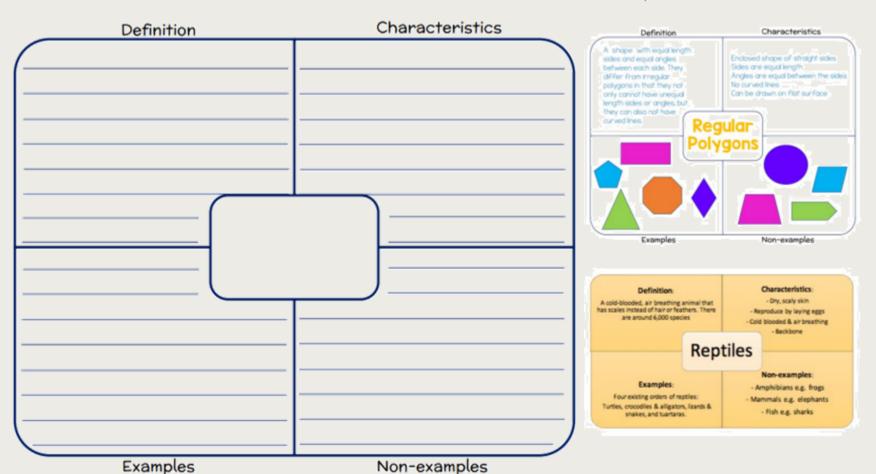
Literacy Tier 2 Vocabulary

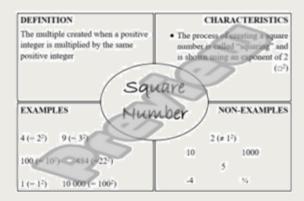
These words are all 'tier 2' words; in other words, they are seen as 'academic vocabulary' and if you know them, can understand them and use them, you will do better in your exams and be able to communicate more precisely and effectively in life.

#	Key word	Definition
1	Adequate	
2	Ambiguous	
3	Attribute	
4	Decipher	
5	Exemplify	
6	Pivotal	
7	Stability	
8	Sufficient	
9	Turbulent	
10	Validity	

Literacy Tier 2 Frayer Model

examples







Have a go at creating a Frayer Model for each of the 6 tier 2 words from this term (blank templates are at the back of the booklet for you to complete this activity).

Art year 9

The

Primary Colors

Tetradic

Shades

Tones

Tints

Warm

Cool Neutral

Monochromatic

Primary colors, according to Tertiary colors combinations of Secondary colors are the combination traditional color theory, cannot be of 2 primary colors. 1 primary and 1 secondary color. formed by mixing any other color. Primary three main colors Secondary mix of primary colors Tertiary between secondary & primary opposites on the color wheel Complimentary colors next to each other Analogous one color, with two analgous Split Complimentary complimentary colors Triadic forms triangle on color wheel

forms a rectangle on

shades and tints of one color

reminds us of the sky and earth

usually not on color wheel

the color wheel

base color + black

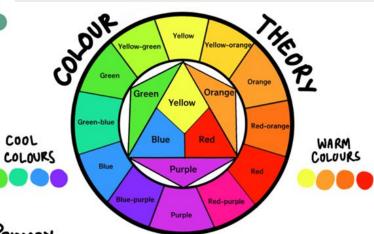
base color +gray

base color + white

reminds us of the sun

The

Secondary Colors



TRIMARY

SECONDARY

a secondary colour

TERTIARY

mixed together.

COOL

The

Tertiary Colors

Mixing different amounts of the primary colours can make all the colours of the colour wheel.



Primary colours and secondary colours

Mixing two primary colours make













ANALOGOUS

Colours that are neighbours on the wheel.

COMPLEMENTARY

Colours opposite from each







MONOCHROMATIC

A colour with its tints and shades. Tints are colours mixed with white. Shades are colours mixed with black.



Colour Theory



Key words	Definition
Composition	The arrangement of elements within an art work
Value	Determines the lightness or darkness of a colour
Tone	(similar to value) describes how light or dark something is
Arrangement	A set up of components
Observational	An active acquisition of information from a primary source) eg drawing or painting from life)
Experiment	To investigate, try something out. (ideas, process or materials)
Refine	Make changes to improve
Shading	Application of tonal value to a drawing(usually using pencil)
Texture	The feel, appearance or consistency of a surface or substance
Blending	The action of mixing or combining things together eg blending one tone into another

Knowledge Goals: Biology - Cell transport

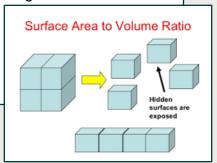
Transport in and out of cells

Cells must take in substances like glucose and oxygen for respiration and remove waste substances like urea and carbon dioxide. Cells must also control how much water they contain. The cells use 3 transport processes to do this **diffusion**, **osmosis** and **active transport**.

Exchanging substances if you are BIG

Large, multicellular organisms can't get the nutrients they need just by diffusion from their surroundings as the have a **small surface area to volume ratio**. Adaptations to increase the rate of diffusion include increasing the exchange surface area of lungs, intestines, gills (in fish). These exchange surfaces have:

- A large surface area
- Thin membrane (short diffusion path)
- Efficient blood supply
- Well ventilated (lungs)



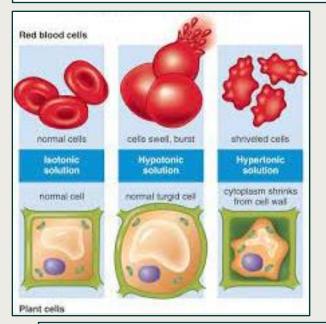
Diffusion-

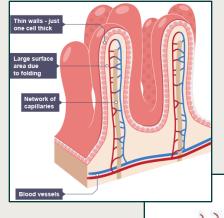
Is the net movement of particles from an area of **high** concentration **to** an area of **low** concentration down a concentration gradient. Diffusion is affected by

- <u>Temperature</u> an increase causes particles to move more rapidly and increases the rate of diffusion
- <u>Surface area</u> the larger the surface area the higher the rate of diffusion
- <u>Concentration difference</u> the greater the difference the higher the rate of diffusion

Osmosis -

Involves the movement of **water** molecules. It is the diffusion of water molecules from a **dilute** (high water potential) solution **to** a **concentrated** (low water potential) solution across a <u>partially permeable</u> membrane.

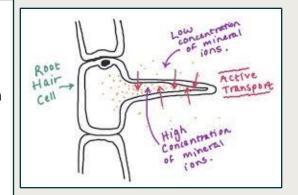




Active transport -

Unlike diffusion and osmosis which are passive, active transport requires **energy**. Active transport is the movement of substances from an area of **low** concentration **to** an area of **high** concentration, against a concentration gradient. It requires energy from respiration.

Examples are mineral ions from the soil into the roots, glucose molecules from the small intestines to the blood



Knowledge Goals: Biology- Cell transport

	Half Term 3: Tier 3 Vocabulary			
#	Key word	Definition		
1	Diffusion	Spreading out of particles (gas/solution) resulting in a net movement from an area of high concentration to an area of low concentration		
2	Osmosis	Diffusion of water from a dilute (high water potential) solution to a concentrated (low water potential) solution through a partially permeable membrane		
3	Active Transport	Movement of substances from a more dilute solution to a more concentrated solution (against a concentration gradient). Requires energy		
4	Concentration gradient	The greater the difference in concentration, the faster the rate of movement		
5	Turgid	Swollen, filled with fluid		
6	Flaccid	Loose, floppy, shrunken		
7	Isotonic	Solutions with same concentration.		
8	Hypotonic	A more dilute solution (less dissolved solute, more water)		
9	Hypertonic	A more concentrated solution (more dissolved solute, less water)		

Notes:	
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Knowledge Goals: Chemistry – Analysis

A pure substance consists only of one element or one compound.

A mixture consists of two or more different substances, not chemically joined together

Examples of pure substances and mixtures: Description Oxygen Pure element Carbon dioxide Pure compound Mixture of elements Oxygen and helium Mixture of compounds Alcohol and water

A **formulation** is a mixture which has been designed as a **useful product**. Formulations are all around us, for example:

- •fuels
- cleaning products
- paints
- medicines
- alloys
- •fertilisers
- •foods





Pure substances have a **sharp melting point** but mixtures **melt** over a range of **temperatures**.

There are several different tests to detect and identify gases in compounds, they're shown in the blue table:

Paper **chromatography** is used to separate mixtures of **soluble** substances and to provide information on the **identity** of the substances present in the mixture. These are often coloured substances such as food colourings, inks or dyes.



R_f = Distance traveled by solute
Distance traveled by solvent

Chromatography relies on two different 'phases':
The mobile phase
The stationary phase
The different dissolved substances in a mixture are attracted to the two phases in different proportions. This causes them to move at different rates through the paper.

Gas Test	Observation	Result
Glowing splint held in a test tube	Splint relights Oxygen is present	
Lighted splint held in a test tube	Pop sound heard	Hydrogen is present
Gas bubbled through limewater	Limewater turns milky or cloudy white	Carbon dioxide is present
Damp litmus paper held in a test tube	Paper turns white	Chlorine is present

Knowledge Goals: Chemistry – Analysis

Half Term 3: Tier 3 Vocabulary			
#	Key word	Definition	
1	Pure	A substance that consists only of one element or one compound.	
2	Mixture	Two or more different substances, not chemically joined together.	
3	Impure	A substance that consists of more than one element or compound.	
4	Soluble	A substance that can be dissolved in liquid.	
5	Solvent	The term used for the liquid in which a substance (solute) is dissolved.	
6	Dissolve	A substance is said to be dissolved when it breaks up and mixes completely with a solvent.	
7	Chromatography	is a technique used to separate mixtures of soluble substances.	
8	Formulation	A mixture which has been designed as a useful product.	

Notes:



Knowledge Goals: Computer Science



Variables

Creating a variable celsius = 25 Using a variable celsius*9/5 + 32

nteract with the user (input and output) Print a message print('Hello, world!') Print multiple values (of different types) print('There are', ndays, 'in a year') Asking the user for a string name = input('What is your name? ') Asking the user for a whole number (an integer) num = int(input('Enter a number: '))

Comparative operators		
==	Equal to	
!=	Not equal to (or different to)	
>	Greater than	
<	Less than	
>=	Greater than or equal to	
<=	Less than or equal to	

Python programming Data types Data Type This indicates how the data will be Casting code stored. The most common data types are integer, string, and float/real. A combination of letters, numbers str(x) String or characters. (eg, Hello, WR10 1XA) int(x) A whole number. (eg. 1, 189) Integer Float/Real A decimal number, not a whole float(x) number. (eg. 3.14, -26.9) bool(x) 1 of 2 values. (eg. True, False, Yes, Boolean char(x) A single character Char

Repeat a block (a fixed number of times)

Repeat a block 10 times for i in range(10): range(10) print(i) Sum the numbers 0 to 9

total = 0 for i in range(10):
 total = total + i print(total)

Repeat a block over a string

for c in 'Hello': print(c) Keep printing on one line

for c in 'Hello': print(c, end=' ')
print('!') Count from 0 to 9

Count from 1 to 10

up to, but not including, 10

range(1, 11) Count from 10 down to 1

range(10, 0, -1)

Count 2 at a time to 10 range(0, 11, 2)

Count down 2 at a time range(10, 0, -2)

Repeat a block over list (or string) indices

```
msg = 'I grok Python!'
for i in range(len(msg)):
   print(i, msg[i])
```

Decide between options

Decide to run a block (or not) Are two values equal?

x = 3if x == 3: print('x is 3')

Decide between two blocks

mark = 80 if mark >= 50: print('pass') else: print('fail')

Decide between many blocks

mark = 80if mark >= 65: print('credit') elif mark >= 50: print('pass') else: print('fail')

▶elif can be used without else ▶elif can be used many times

x == 3

 ⚠ two equals signs, not one

Are two values not equal?

x != 3

Less than another?

x < 3

Greater than another?

x > 3

Less than or equal to?

x <= 3

Greater than or equal to?

x >= 3

The answer is a Boolean:

True

or False

Arithmetic operators			
Operation	Symbol	Example	Output
Addition	+	2 + 10	12
Subtraction	-	9-6	3
Multiplication	*	5 * 4	20
Division	/	5/2	2.5
Floor Division	//	7//2	3
Remainder	%	7 % 3	1

Knowledge Goals: Computer Science

Half Term 1: Tier 3 Vocabulary		
#	Key word	Definition
1	Python	A programming language used to write programs.
2	Algorithm	A set of rules/instructions to be followed by a computer System to solve a problem.
3	Code	The instructions that a program uses.
4	Sequence	Parts of the code that run-in order and the pathway of the program reads and runs very line in order.
5	Selection	Selects a pathways through the code based on whether a condition is true.
6	Iteration	Code is repeated (looped), either while something is true or for a number of times.
7	Variable	A value that will change whilst the program is executed. (eg. temperature, speed)
8	Syntax	The punctuation/way that code has to be written so that the computer can understand it. Each programming language has its own syntax.
9	Logic error	An error produced when a program is understood by the computer but does not perform as the programmer expects.
10	Operator	A character that represents a specific mathematical or logical action or process.

Notes:	

For more help or to progress your Python knowledge further use the QR code below:



Knowledge Goals: Drama Elizabethan Theatre

ELIZABETHAN THEATRE

ELEMENTS OF ELIZABETHAN THEATRE

- This showed the birth or professional permanent theatres
- They were funded by rich entrepreneurs and occasionally rovaltv.
- The stages were octagonal, round, or square, with a thatched roof.
- They functioned as a repertory theatre.
- They only included male actors. Female players were played by adolescent boys.
- · This is when the use of lights (candles and torches) were introduced.
- They put on plays every other week and never repeated the same show two days in a row.
- Rather than having strong scenery, set, and props, Elizabethan theatre focused on extravagant costumes.

Drama was introduced as an art form that brought

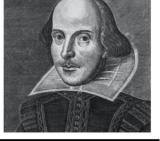
TOGETHER

the social classes. The same plays were shown in the Court and in the playhouse.



actors were

Audiences and **EDUCATED**



William Shakespeare (1564 - 1616)

The Bard is who we all think about when we think about theatre. His plays are performed more than any other work, he invented words, he wrote 39 plays, and they have been translated into every single language. He wrote comedies and histories and then later in his life tragedies and tragicomedies. His works are famous for double plots, comic sequences, fatal flaws, and supernatural elements. Although not revered in his time, his fame is clear still today.

FORMALIZATION of theatre arts.

Because the economy was at a high and theatre was well-funded by entrepreneurs. theatres were making lots of MONEY

Costumes were very colorful and based on social rank of the

Began MIXING genres

Notes:

First time that SEATING

The introduction of

STAGE WINGS

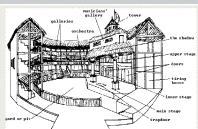
was determined by how much an audience member could pay

CHARACTERS.

Knowledge Goals: Drama – Elizabethan Theatre

Half Term 1: Tier 3 Vocabulary

	<u> </u>		
#	Key word	Definition	
1	Iambic Pentatemeter	A rhythm or pattern of speech used often in Shakespeare's plays.	
2	Stage Direction	A part of a script which gives the actor a direction they need to perform. A famous example "Exit stage pursued by bear"	
3	Shakespeare	A famous English playwright (1564-1616).	
4	Playwright	Someone who writes plays to be performed, rather than improvised.	
5	Groundlings	The poor people in the audience who would be stood on the ground, not sat on a chair!	
6	Comedy	A play that was written to make people laugh (e.g. As You Like It, Midsummer Night's Dream)	
7	Tragedy	A sad play or a play with a tragic ending (Othello, Romeo and Juliet)	
8	Histories	Plays that were written to tell historical tales (Henry IV parts 1&2, Richard I)	



Notes:

Text Selection

A Monster Calls
Frankenstein
Robin Hood
The Sword and the Stone
Theseus and the Minotaur
IT

Home Learning Tasks:

- Complete 15 minutes of reading every night, using your AR book.
- Complete the vocabulary acquisition quizzes, set on Teams every fortnight.
- Using this knowledge organiser, learn and review the key ingredients of crafting effective narratives.
- Read at least one text from the wider reading list!

Knowledge Goals: English Language

CORE ASSESSMENT SKILLS AND WHAT STUDENT ARE EXPECTED TO WRITE.

- Application of language techniques (ALT)
- Application of structural techniques (AST)
- Effective paragraphing (EP)
- Sentence variety (SV)
- Mood / atmosphere (MA)

'Frankenstein' by Mary Shelley

I had selected his features as beautiful. Beautiful! Great God! His vellow skin scarcely covered the work of muscles and arteries beneath; his hair was of a lustrous black, and flowing; his teeth of a pearly whiteness; but these luxuriances only formed a more horrid contrast with his watery eyes, that seemed almost of the same colour as the dun-white sockets in which they were set, his shrivelled complexion and straight black lips.

The different accidents of life are not so changeable as the feelings of human nature. I had worked hard for nearly two years, for the sole purpose of infusing life into an inanimate body. For this I had deprived myself of rest and health.

Sentence Types		
Simple sentence	For short sentences you want to emphasise.	She was lost.
Compound sentence	Two sentences connected with a coordinating conjunction = FANBOYS: for, and, nor, but, or, yet, so.	She was lost, but she was not beaten.
Complex sentence	Needs a comma! Opens with a subordinating conjunction: because, if, although, since, until, and while.	While the sun was setting, the creatures swarmed out of their holes.
Embedded clause	Extra information in the middle of a sentence, behaving like brackets. You could also use brackets!	His eyes, although twitching and fogged, spotted the movement of her dress like a hawk.
Holophrastic sentence	A one-word sentence; great for emphasising short phrases or words (because you are banned from words all in capital letters)	She darted into the woods for cover, losing herself deeper and thicker and mindlessly lower into the cold forest. Darkness .
Triad	3 adjectives.	His cracked , blood-shot and untamed eyes scanned the silent room.
Staccato	A series of short sentences to build up tension or panic.	She let out the whisper of a gasp. His eyes darted. She froze. A sourry. A snap. Footsteps? Silence.

<u>+</u>	P			
Language Techniques (imagery)				
	Metaphor	A comparison: a figure of speech in which a word or phrase	Speckled, marquise diamonds began to illuminate the night sky.	
		is applied to an object or action to which it is not literally	Nettles: a curious name for those green spears.	
7%		applicable.		
54	Metaphor -	A comparison: giving any human attribute to objects.	The vines strangled the gasping roses, creeping stealthily toward the decrepit,	
	personification	Focusing on human actions might simplify this.	crumbling fence.	
	Metaphor – pathetic	A comparison: giving emotions to objects. Often effective	As the light faded, the dejected and sullen daffodils cocooned into themselves.	
	fallacy	when linked to the weather.	Tiring of the pressure to perform, the sun crept away in exhaustion.	
	Simile	An explicit comparison where you make clear that you are	The stars illuminated the sky like speckled, marquise diamonds.	
		making a comparison - often using the words 'like', 'as' or	The nettles were as sharp and dangerous as spears.	
		"than".	The vines were <u>more deadly</u> than a viper looking for its next kill.	
	Use of the 5 senses	Building a clear sense of place by drawing on what can be	Before I opened my eyes, the harsh light prickled my eyelids. My tongue, like	
		seen, heard, smelt, felt and, possibly, tasted. Avoid 'I could	sandpaper after 24 hours without water, felt swollen and obtrusive in my mouth.	
		hearI could seeetc.' – try and be more creative and less	Rustlings of unknown voices coupled with a crunching of distant leaves forced me to	
		obvious. Maybe a full paragraph focused on sounds for	face facts: I was not alone. A fetid and putrid stench of death seemed to have	
		example.	consumed the air.	
Sibilance (helps create Type of alliteration: repetition of soft consonants to		Type of alliteration: repetition of soft consonants to create a	The shrieking and screeching of the icy winds pierced my ears.	

hissing sound or gentle, whistling effect (depending on the

Sounds in words which are aggressive and explode through

the mouth: t, k/c, p, d, g, and b. Think of swear words which

atmosphere being created). 'c..sh...ss...sc.....tion...'

you can really spit out of your mouth with anger!

onomatopoeic words)

Plosives (helps create

onomatopoeic words)

Structural Techniques				
Zooming in	Focus in on a description of a particular detail	Draw attention to something meaningful, symbolic or relevant to plot.		
	or action.			
Zooming out	Focus on a description of the setting or action	Frame the bigger picture for the reader – perhaps to gain perspective or focus on a detail of the		
	on a broader scale.	weather (maybe to reflect the atmosphere or mood using pathetic fallacy. Maybe weather based)		
Shift in focus	Where the writer moves from focusing on one	Draw our attention to an important detail. Perhaps moves the plot forward.		
	idea and moving onto another.			
Flashback	Jump back to an earlier period in time.	Provide relevant details for the reader needed to understand events - perhaps after starting in the		
		middle of the action to create lots of unanswered questions.		
Shift in	Move from one tone, feeling or mood to	To indicate a change – perhaps in characters' feelings or to introduce a threat.		
atmosphere	another.			
Shift in pace	Move from slow paced to a faster pace or vice-	Build tension. Decrease tension.		
	versa.			

The sweet smell of honeysuckle, drowsily swam through the shafts of sunlight.

The pounding clatter of dank, tepid rain on the cracked and shuddering fence

echoed loudly around the desolate yard.

Suggested Reading List				
Old Gods New Tricks Goddesses and Heroines: Women of Myth and Legend South Asian Folktales, Myths and Legends				
By Thiago de Moraes	By Xanthe Gresham-Knight	By Sarah Shaffi		
The Girl Who Fell Beneath the Sea	Lore	Curse of the Night Witch		
By Axie Oh	By Alexandra Bracken	By Alex Aster		
The Chocolate Touch Dragon Pearl Mister Creecher				
By Patrick Skene Catling	By Yoon Lee	By Chris Priestley		

Knowledge Goals: Food Technology

A Head Chef is a highly skilled professional cook who oversees the operations of a restaurant or dining facility

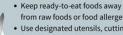
AVOIDING CROSS-CONTAMINATION

Chemical-to-Food

- · Label chemicals clearl
- · Have a designated closet for chemicals



Food-to-Food



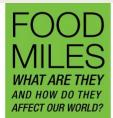
- from raw foods or food allergens · Use designated utensils, cutting boards, etc. for raw foods and
- · After handling allergens or raw foods, immediately change glove and wash your hands

Pest-to-Food

- . Store food at least 6 inches above the floor
- · Keep foods covered
- · Keep a clean, sanitized, and tidy kitchen



StateFoodSafety !!



AMERICAN FOOD TRAVELS

AN average OF 1.500 TO 2.500 MILES

GROWING FOOD CLOSER TO

home ALLOWS US TO HAVE

FRESHER FOODS, AND MORE



60-70% OF THE COST OF YOUR FOOD GOES TO production inputs



FERTILIZER, OIL/GAS, WATER, ETC.), TRANSPORTATION, AND STORAGE THAT USE *limited*, resources, petrochemicals, & generate greenhouse gasses.



FRUITS AND VEGETABLES ALLOWED TO grow to full ripeness HAVE MORE NUTRITIONAL VALUE THAN CONVENTIONAL PRODUCE HARVESTED EARLY AND RIPENED WITH CHEMICAL GASSES IN TRANSPORT

The role of the EHO (Environmental Health Officer)

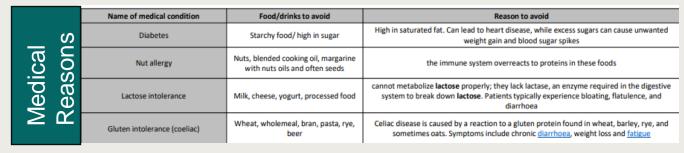


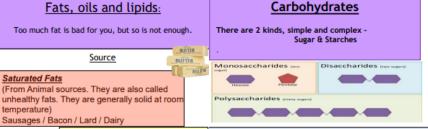
Checkina

ventilation

The role of the EHO

- 2) They can visit randomly so long as it is deemed "a
- 3) They sometimes visit as a result of a complaint
- 4) Can close a business immediately if the risk is high
- 5) They can offer advice to business'
- 6) They can seize and detain food
- They can prosecute business'
- 8) They can inspect training records of staff
- 9) Monitor hygiene and cleaning standards
- 10) Take temperatures of fridges, inspect how waste is disposed of, hand washing facilities and food storage





(These are healthier. The are often liquid at room temperature. Monounsaturated fat olive oil / avocados Polyunsaturated fats - sunflower oil / seeds

Unsaturated Fats

Not enough

Vitamin

soluble)

Unprotected

organs

Omega-3. These are Polyunsaturated and called 'healthy" fats as your body needs them but can't make them. They are good for your heart.

Oily fish / Nuts / Seeds

Function

Energy Warmth Protection of organs Source of fat soluble vitamins Hormone production

Cancer

Dietary Reference Values Too much Obesity Heart disease deficiency (fat Type 2 95g 70g diabetes Stroke 30g 20g

Simple - these are sugars (monosaccharides, disaccharides) Cakes, jam, soft drinks

Complex - these are starches (polysaccharides) Bread, potatoes, Flour, Pasta, Rice.

Function Free sugars Quick burst of energy These give you no Complex nutritional benefit other than energy. Longer lasting energy

Dietary advice

- Reduce the amount of sugar that we eat, no more than 5% of our diet.
- Complex Carbohydrates should make up half of the energy we
- Wholegrain cereals are a good source of

Not enough Too much

sugar

leads to

problems

Can lead

to type 2

diabetes

dental

Can make	 Excess i
blood sugar	turned
level drop	into fat
 hunger, 	Can cau
 dizziness, 	obesity

- dizziness, Tiredness Lack of energy
- Our body will use protein for energy (leads to loss

of muscle)

Reference Values Amoun 1-3 15g Too much 4-6 20g 7-10 28g 11-14 42g

15-18

19-50

55g

55g

53g

maintenance

Dietary

Protein:

These are made up of essential amino-acids and nonessential amino-acids. (Our bodies can make nonessential amino acids, but we need to get essential amino acids from our food).

Source

HBV - these have all the essential amino acids Meat, fish, dairy, eggs (animal sources) Tofu

LBV - these are missing at least one essential

·Seeds, nuts, beans, pulses, cereals, Quorn (plant sources)

Function Growth Quorn Repair

Not enough Too much

Kwashiorkor	Excess protei
Dedema	can be
Anaemia	converted to
slow growth in	energy. If
children	unused turns
	fat.

Complementary actions

proteins helps get a balance of essential amino acids. e.g. beans on toast.

Combining 2 or more LBV

Knowledge Goals: Food Technology

	Half Term 1: Tier 3 Vocabulary		
#	Key word	Definition	
1	Cross- Contamination	When bacteria is unintentionally transferred from one food to another, with harmful effect such as cross-contamination between raw and cooked food	
2	Intolerances	A food intolerance is when you have difficulty digesting certain foods or ingredients in food. It's not usually serious, but eating the food you're intolerant to, can make you feel unwell.	
3	Environmental Health Officer	Environmental health officers make sure people's surroundings are safe, healthy and hygienic. They can enforce food safety legislation, issue improvement notices, and shut businesses down if they do not meet standards.	
4	Excess and deficiencies of nutrients	Excess: to consume too much of a specific nutrient Deficiency: to consumer too little of a specific nutrient	
5	Food allergies	A food allergy is when the body's immune system reacts unusually to specific foods. Although allergic reactions are often mild, they can be very serious.	
6	Food miles	The distance in which food has travelled from its origin to the plate 'from farm to fork'	

Notes:		
	 •	
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	 •	

Knowledge Goals: French

	•		3490
La famille les parents le père la mère le beau-père la belle-mère le mari la femme les enfants le fils la fille le frère la sœur le demi-frère	Family members parents father mother stepfather/father-in-law stepmother/mother-in-law husband wife children son daughter brother sister half-brother, stepbrother	la demi-sœur le beau-frère la belle-sœur les grands-parents le grand-père la grand-mère les petits-enfants le petit-fils la petite-fille l'oncle (m) la tante le cousin/la cousine	half-sister, stepsister brother-in-law sister-in-law grandparents grandfather grandmother grandchildren grandson granddaughter uncle aunt cousin
Les adjectifs de personnalité Il/Elle est agaçant(e) arrogant(e) amusant(e) bavard(e) charmant(e) content(e) fort(e)	Personality adjectives He/She is annoying arrogant amusing, funny talkative, chatty charming happy strong	impatient(e) impoli(e) indépendant(e) intelligent(e) marrant(e) méchant(e) têtu(e)	impatient impolite independent intelligent funny nasty/mean stubborn, pig-headed
Ma description physique J'ai les cheveux courts/longs raides/bouclés/frisés noirs/bruns/blonds roux/gris/blancs J'ai les yeux bleus/verts gris/marron	My physical description I have hair short/long straight/curly black/brown/blond red/grey/white I have eyes blue/green grey/brown	J'ai des lunettes des boutons une moustache/une barbe Je suis petit(e)/grand(e) de taille moyenne mince/gros(se)	I have glasses spots a moustache/a beard I am short/tall of average height thin/fat
En ville la boîte de nuit le bowling le café le centre commercial le cinéma les magasins la patinoire	In town night club bowling alley cafe shopping centre cinema shops ice rink	la piscine la plage le théâtre dans derrière devant entre	swimming pool beach theatre in behind in front of between
Quand? aujourd'hui demain ce/demain matin cet/demain après-midi	When? today tomorrow this/tomorrow morning this/tomorrow afternoon	ce/demain soir lundi matin samedi soir	this/tomorrow evening on Monday morning on Saturday night
Les amis l'ami (m)/le copain l'amie (f)/la copine le petit ami/le petit copain la petite amie/la petite copine Je retrouve mes amis au parc.	Friends (male) friend (female) friend boyfriend girlfriend I meet up with my friends in the park	Avec mon petit ami, j'écoute de la musique. Je passe chez ma petite copine. On rigole bien ensemble. On regarde un film ou des clips vidéo.	I listen to music with my boyfriend. I go to my girlfriend's house. We have a good laugh together. We watch a film or music videos.

On joue au foot ou au

basket ensemble.

On mange ensemble au fast-food.

On discute de tout.

We play football or basketball

We eat together at a fast-food

We talk about everything.

together.

restaurant.

(female) friends.

(female) friend.

I chat online with my best

Je traîne en ville avec mes copines. I hang out in town with my

Je tchatte en ligne avec ma

meilleure copine.

Jours.		1011	
L'amitié Je pense que Pour moi, À mon avis, Un(e) bon(ne) ami(e) est compréhensif/-ive cool drôle fidèle généreux/-euse gentil(le) honnête modeste optimiste	Friendship I think that For me In my opinion A good friend is understanding cool funny loyal generous kind honest modest optimistic	patient(e) sensible sympa Un(e) bon(ne) ami(e) écoute mes problèmes/ mes secrets discute de tout avec moi aide tout le monde accepte mes imperfections respecte mes opinions a les mêmes centres d'intérêt que moi a le sens de l'humour	patient sensitive nice A good friend listens to my problems/secrets talks about everything with me helps everyone accepts my faults respects my opinions has the same interests as me has a sense of humour
Les rapports en famille Je m'entends bien avec Je me dispute avec Je m'entends avec Je m'amuse avec Je m'occupe de le frère aîné/cadet la sœur aînée/cadette	Family relationships I get on well with I argue with I bicker with I have fun with I look after older/younger brother older/younger sister	II/Elle est/a l'air/semble dynamique égoïste jaloux/-ouse sévère timide travailleur/-euse	He/She is/looks/seems lively selfish jealous strict shy hard-working
On va sortir Je vais aller à un match/au bowling aller au cinéma/à la piscine	Going out I am going to go to a match/the bowling alley to go to the cinema/the swimming pool	voir un spectacle faire du patin à glace/du skate faire les magasins jouer à des jeux vidéo Tu veux venir?	to see a show to go ice skating/skateboarding to go shopping to play video games Do you want to come?
Les questions Quand? Avec qui? On y va comment?	Questions When? With who(m)? How are we getting there?	On se retrouve où? On se retrouve à quelle heure?	Where shall we meet? At what time shall we meet?
Une sortie J'ai contacté un copain/une copine. J'ai quitté la maison. J'ai raté le bus. Je suis allé(e) en ville. J'ai écouté de la musique. J'ai retrouvé mon copain/ma copine.	An outing I contacted a friend. I left the house. I missed the bus. I went into town. I listened to music. I met up with my friend.	J'ai discuté avec mon copain/ ma copine. J'ai mangé un sandwich. J'ai acheté des vêtements. C'était super. J'ai passé une très bonne journée.	I talked to my friend. I ate a sandwich. I bought some clothes. It was great. I had a very good day.
La personne que j'admire Comment s'appelle la personne que tu admires? Mon héros s'appelle Mon héroïne s'appelle Mon modèle s'appelle C'est qui? C'est un pilote de Formule 1. C'est un scientifique. C'est une actrice. C'est une actrice. C'est une actrice de mode. Fais-moi sa description physique. Il/Elle est petit(e)/gros(se), etc. Il/Elle a les cheveux bruns, etc. Quelle est sa personnalité?	The person I admire What is the name of the person you admire? My hero is called My heroine is called My no le model is called Who is he/she? He is a Formula 1 driver. He is a scientist. She is an actress. She is a fishion designer. Describe for me what he/she looks like. He/She is small/fat, etc. He/She has brown hair, etc. What is his/her personality?	Il/Elle est travailleur/-euse/créatif/-ive, etc. Pourquoi est-ce que tu admires cette personne? J'admire (Stromae/Malala, etc.) car il/elle a travaillé très dur a joué dans beaucoup de films a gagné beaucoup de courses a donné de l'argent aux bonnes œuvres a lutté contre ses problèmes J'aimerais être comme lui/elle.	He/She is hard-working/creative, etc. Why do you admire this person? I admire (Stromae/Malala, etc.) because he/she worked/has worked very hard acted/has acted in lots of films wor/has won lots of races gave/has given money to good causes fought/has fought his/ her problems I would like to be like him/her.
Les mots essentiels très assez mais	High-frequency words very quite but	d'abord puis ensuite	first of all then next

plus tard

le soir

yesterday

afterwards

in the evening

Knowledge Goals: French

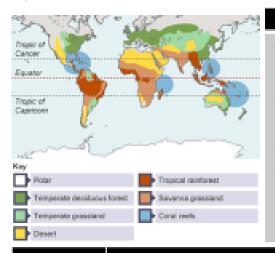
Half Term 1: Tier 3 Vocabulary		
1	SSC	Symbol-Sound Correspondence: the sound that letters or combination of letters make in a language
2	cognate	A cognate is a word which looks the same or very similar to a word in English. E.g.: le cinéma, le football
3	connective	A word which links sentences together. E.g.: and, but
4	Opinion verb/ phrase	A verb or a phrase which you use to give an opinion: I like, I dislike, in my opinion etc
5	Justifier	A way of giving a reason, a justification of an opinion. I like because it is
6	qualifier	A word which changes the intensity of an adjective: quite, very, extremely
7	adjective	A describing word: big, small, green, interesting, amusing etc
8	Time phrase	A phrase used to say when something is happening: normally, on Mondays, yesterday, next weekend
9	Tenses	Past, present, future, conditional
10	Infinitive	A verb as you find it in the dictionary: to play, to eat. This is the form of the verb when it is not used with a pronoun (I, he, she)

Notes:



Knowledge Goals: What's an ecosystem worth?





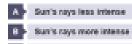
What are ecosystems?

An ecosystem (or ecological system) consists of all the organisms and the physical environment with which they interact. These biotic and abiotic components are linked. together through nutrient cycles and energy flows. Energy enters the system through photosynthesis and is incorporated into plant tissue. By feeding on plants and on one another, animals play an important role in the movement of matter. and energy through the system. They also influence the quantity of plant and microbial biomass present. By breaking down dead organic matter, decomposers release carbon back. to the atmosphere and facilitate nutrient cycling by converting nutrients stored in dead biomass back to a form. that can be readily used by plants and microbes.

Why are ecosystems where they are?

The distribution of large-scale ecosystems (biomes) is determined by climate. Latitude, air pressure and winds are important factors. that determine the climate of a place. Ocean currents act much like a conveyor belt, transporting warm water and precipitation from the equator toward the poles and cold water from the poles back to the tropics.





5 THREATS TO BIODIVERSITY



Exemple Applicultural land

responsible to

905, of global





Survival direct



Species

overexploitation



Change







What are Ecosystem Services?

Ecosystem services refers to the things that we get

from ecosystems. Some of the things that we get

ecosystems perform is one of improving our well-

ecosystems for leisure. These are known as cultural

services. The final service that ecosystems perform

is by helping to return oxygen to the atmosphere.

and fixing carbon dioxide in living material. This is

not the only regulating services that ecosystems

are tangible such as food or chemicals for

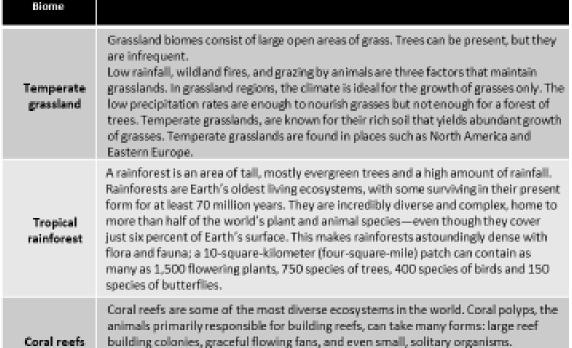
medicines or building materials. These are

'ecosystems goods'. Another service that

being by getting out into nature and using



Do more!



tropical seas and others in the cold, dark depths of the ocean.

Thousands of species of corals have been discovered; some live in warm, shallow,

Presquire cells

species and

Sounds: Living Planet Report 2020, World Wide Fund for Nature (WWF)

Find out more

perform.

ECOSYSTEM SERVICES



Knowledge Goals: What's an ecosystem worth?



Half Term 3: Tier 3 Vocabulary

#	Key word	Definition
1	Ecosystem	An ecosystem can be defined as a biological system that consists of all the living organisms (plants and animals) in an area as well as the nonliving things with which the organisms interact. In an ecosystem, all the components are interdependent on each other
2	Biome	Biome refers to the community of plants and animals that occur naturally in an area, often sharing common characteristics specific to that area. Biome, also known as a major life zone, is an area that includes communities of plants and animals that have a common adaptation to that particular environment.
3	Abiotic	Abiotic factors refer to all the non-living, i.e. chemical and physical factors present in the atmosphere, hydrosphere, and lithosphere. Sunlight, air, precipitation, minerals, and soil are some examples of abiotic factors
4	Biotic	Biotic factors refer to all living organisms from animals and humans, to plants, fungi, and bacteria.
5	Nutrient cycle	The nutrient cycle is a system where energy and matter are transferred between living organisms and non-living parts of the environment. This occurs as animals and plants consume nutrients found in the soil, and these nutrients are then released back into the environment via death and decomposition.
6	Regulating services	Maintaining the quality of air and soil, providing flood and disease control, or pollinating crops are some of the 'regulating services' provided by ecosystems. They are often invisible and therefore mostly taken for granted.
7	Over-exploitation	When humans harvest a species from their natural habitat at a faster rate than the species can repopulate, the species is labeled as overexploited or overharvested. Typically, overharvested species are used as a food source. Overexploiting a species can have detrimental impacts on ecosystem health.
8	Climate	Climate is the long-term pattern of weather in a particular area. Weather can change from hour-to-hour, day-to-day, month-to-month or even year-to-year. A region's weather patterns, usually tracked for at least 30 years, are considered its climate
9	Biomass	Biomass is the mass of living biological organisms in a given area or ecosystem at a given time. Biomass can refer to species biomass, which is the mass of one or more species, or to community biomass, which is the mass of all species in the community.
10	Invasive species	Invasive species are non-native species that have colonised a new area to the point of damaging the surrounding environment and are seen as one of the top five major threats to our ecosystem today. They can be brought into a new environment from pathways such as ships, fishing equipment or accidental releases.

Notes:

Knowledge Goals: History - Holocaust



















Jan 30 1933 Hitler becomes Chancellor Sept 15 1935 Nuremburg Laws July 15 1937 Buchenwald Camp opens Oct 28 1938 Nov 9-10 1938
Polish Jews expelled November Pogrom from Germany (Kristallnacht)

Jan 20 1942 Wannsee Conference Oct 7 1944 Revolt at Auschwitz Nov 8 1944 April 30 1945
Death marches Hitler commits
begin suicide

1. What is the

The Holocaust? was the systematic extermination of millions of people from minority groups in Europe by Nazi Germany during World War 2. The Nazis believed that Germans were racially superior, and anyone considered inferior were a threat. This included Jews, Roma & Sinti (travellers), people with

4. Pranar solvation disabilities.

After the Wannsee Conference in Jan 1942 the decision was made to mass murder European Jews as a 'solution' to the 'Jewish problem'. This was led by the SS under Himmler. Jews from all over Nazi controlled territory began to be deported to extermination camps such as Auschwitz and Treblinka.

2. Increasing

1933: Persecution of the following properties of the follo

businesses.

1935 Sept: Nuremberg Laws; Jews no longer German citizens.

1938 9-10 Nov: November

Pogrom; violent attacks on Jewish business & synagogues. 20,000 Jews sent to camps.

1939: Jews can be evicted without

5. 3 PRATE Marche allowed to go to The Plazi's realised they were loosing the war, and in Nov 1944 extermination camp prisoners began to be marched in towards Germany away from the advancing allied forces. Many people died on the way due to abuse, starvation, exposure or being shot by guards and were left on the side of the road / trail.

3. Ghetto Life.

- As Nazis invaded other countries, they had lots more Jews to deal with.
- They decided Jews should be moved to certain areas of towns and cities called ghettos.
- Entire communities were forced to move to these areas.
- Meant to be temporary until they could be removed from Europe.
- Largest was in Warsaw, Poland, created in Oct 1940.
- It held 460,000 Jews in dreadful living conditions; starvation, disease, poverty.

5. Liberation

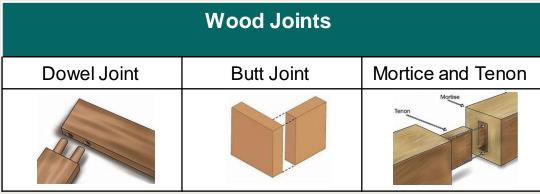
As they advanced towards
Germany the Allies found victims
of the extermination camps. The
Nazi's had tried to hide evidence
in case they faced a trial. On 7th
May 1945 Germany surrendered
and the remaining prisoners left
alive had a chance of
survival. Many continued to die
because they'd become too weak

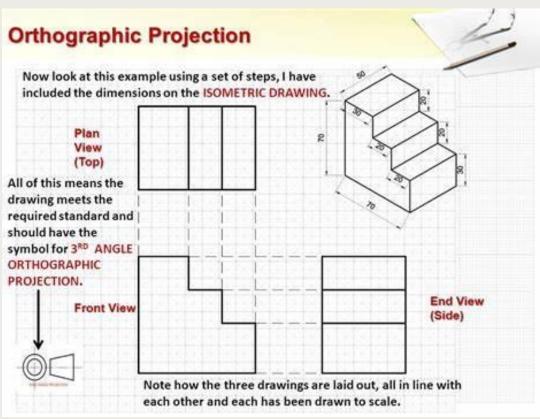
Knowledge Goals: History Holocaust

		Half Term 2: Tier 3 Vocabulary
#	Key word	Definition
1	Anti-Semitism	Prejudice towards, or discrimination against, Jews.
2	Dehumanisation	Intended to change the manner in which a person or group of people are perceived. Dehumanization reduces the target group to objects therefore no longer human and worthy of human rights or dignity.
3	Persecution	Act of causing others to suffer because of difference in ethnic or cultural background, lifestyle, religion, or political beliefs.
4	Bystander	One who is present at an event or who knows about its occurrence and chooses to ignore it. That is, he or she neither participates in, nor responds to it.
5	Ghetto	Compulsory "Jewish quarters" in the poorest sections of the cities and towns they had conquered. Ghettos were closed off by walls, or fences made of wood and barbed wire.
6	Scapegoat	A person or group of people unfairly blamed for natural disasters or wrong actions done by others. The Jews were the scapegoats of the Nazis, and unfairly blamed for all of the economic, political, and cultural problems in Germany in the 1920s and 1930s.
7	Sonderkommando	Work units made up of German Nazi death camp prisoners. They were composed of prisoners, usually Jews, who were forced, on threat of their own deaths, to aid with the disposal of gas chamber victims during the Holocaust.
8	Einsatzgruppen	Death squads of Nazi Germany that were responsible for mass murder, primarily by shooting, during World War II in German-occupied Europe.
9	Liberation	The discovery of the camps by Allied forces who stumbled upon them while pursuing the German army.
10	Concentration Camps	- Nazi system for imprisoning those consider "enemies of the state." Many different groups and individuals were imprisoned in concentration camps: religious opponents, resisters, homosexuals, Jehovah's Witnesses, Roma and Sinti (Gypsies), Poles, and Jews.

Notes:

Knowledge Goals: Materials 1 - Sweet Dispenser







Health and Safety
It is really important we ASSESS the RISK and REDUCE the RISK of Injury by LISTENING To the TRAINING and following the correct PPE usage

- Hair must be tied up in the workshop
- Blazers and ties must be removed
- Jewellery must be removed
- Only use machines you have been told to use and have been demonstrated to you
- Ensure you know where the emergency stop button is
- Do not eat or drink in the workshop
- No running

R's - Sustainability

9

Recycle - Take an existing product that has become waste and re-process the material for use in a new product.

<u>Reuse</u> - Take an existing product that's become waste and use the material or parts for another purpose, without processing it.

Reduce - Minimise the amount of material and energy used during the whole of a products life cycle.

Refuse - Don't accept a product at all if you don't need it or if its environmentally or socially unsustainable.

<u>Rethink</u> - Our current lifestyles and the way we design and make.

Repair - When a product breaks down or doesn't function properly, fix it.

Knowledge Goals: Materials 1 – Sweet Dispenser

	Half Term 1: Tier 3 Vocabulary		
#	Key word	Definition	
1	Aesthetics	The look of a product e.g. the colour, theme, texture, finish etc	
2	Sustainability	Sustainability means doing something that will cause little or no damage to the environment and will be able to continue for a long period of time.	
3	Plan view	the appearance of an object as seen from above	
4	Dimensions	A dimension is a measurement such as length, width, or height. If you talk about the dimensions of an object or place, you are referring to its size and proportions	
5	Adhesives	a substance used for sticking objects or materials together e.g glue	
6	Mechanism	a system of parts working together in a machine; a piece of machinery	
7	Orthographic projections	Orthographic projections are working drawings in either a first or third angle projection and show each side of a design without perspective, ie a 2D drawing of a 3D object. They are used to show an object from every angle to help manufacturers plan production.	

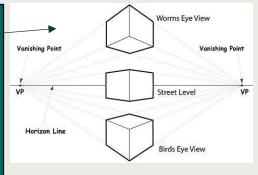
Notes:	

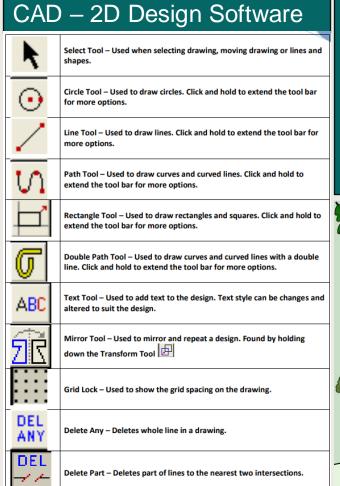
Knowledge Goals: Materials 1 - Passive Amplifier

Health and Safety It is really important we ASSESS the RISK and REDUCE the RISK of Injury by LISTENING To the TRAINING and following the correct PPE usage

- Hair must be tied up in the workshop
- Blazers and ties must be removed
- Jewellery must be removed
- Only use machines you have been told to use and have been demonstrated to you
- Ensure you know where the emergency stop button is
- Do not eat or drink in the workshop
- No running

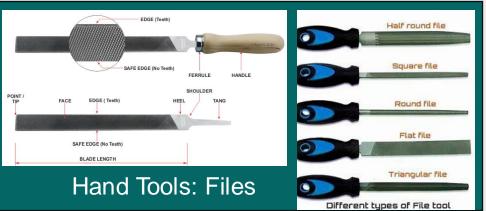
Two-point perspective - This shows an object from the side with two vanishing points. It gives the most realistic view of a product as it shows the item edge on, as we would see it. It is often used to produce realistic drawings of an object.





The loudness of a sound is a measure of the amplitude of the wave. The greater the amplitude, the louder the sound.





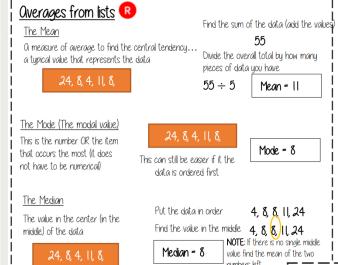


Knowledge Goals: Materials 1 - Passive Amplifier

	Half Term 1: Tier 3 Vocabulary		
#	Key word	Definition	
1	Amplification	the process of increasing the volume of sound,	
2	Etch	To engrave into a design, which cuts the surface but not all the way through the material	
3	2-point perspective	This shows an object from the side with two vanishing points. It gives the most realistic view of a product as it shows the item edge on, as we would see it. It is often used to produce realistic drawings of an object.	
4	Half-round file	a file made flat on one side and convex on the other for filing curves	
5	Round file	A file that has a round section, this is used for It is used for rubbing or finishing holes of small diameter	
6	Flat file	A flat file is referred to as a file which is of a rectangular cross-section in shape	
7	Coping saw	a saw with a very narrow blade stretched across a D-shaped frame, used for cutting curves in wood.	

Notes:	
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	••
	••

Unit 5 – Statistics			
Topic	Video	Resource	
Averages	Watch this	Complete Check your work	
Averages from a Frequency Table	Watch this	Complete Check your work	
Stem and Leaf Diagrams	Watch this	Complete Check your work	
Pictograms	Watch this	Complete Check your work	
Bar Charts	Watch this	Complete Check your work	
Scatter Graphs	Watch this	Complete Check your work	



For Grouped Data

Extrapolation is where we use our

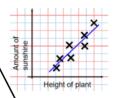
The modal group — which group has the highest frequency.

i The line of best fit The Line of best fit is used to make estimates about the information in your scatter graph Things to know: axes cross)

• The line of best fit **DOES NOT** need to go through the origin (The point the

There should be approximately the same number of points above and below the line (It may not go through anu points)

The line extends across the whole graph



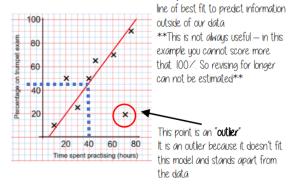
It is only an estimate because the line is designed to be an average representation of the data

It is always a **straight line**.

Using a line of best fit

Interpolation is using the line of best fit to estimate values inside our data point.

e.a. 40 hours revising predicts a percentage of 45.



Overages from a table 🔞 Overall Frequency: Non-arouped data Number of Siblings 6 Frequency Subtotal Total number of

Overall Frequency: 9

Overall Total: 565

Mean: 62.8g

The data in a list: 0,0,0,0,0,0,1,1,1,1,1,1,2,2,2,2,2

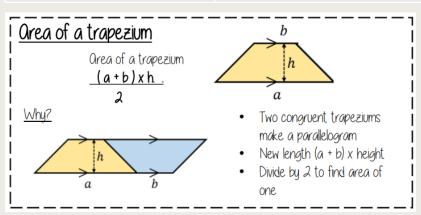
Mean: total number of siblings Total frequency

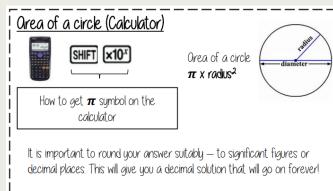
Grouped data

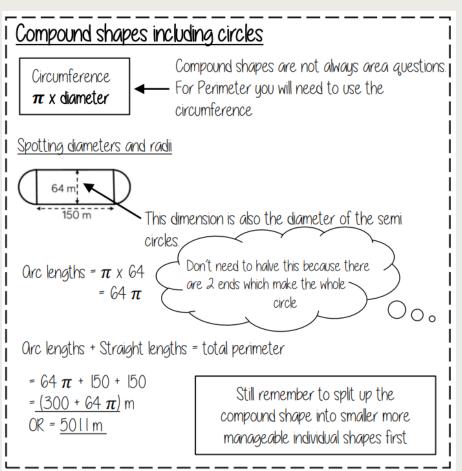
X Mainhafa)	Frequency	Mid Point	MP x Freq
Weight(g) $40 < x \le 50$	1	45	45
50 < <i>x</i> ≤ 60	3	65	195
60 < <i>x</i> ≤ 70	5	65	325

The data in a list: 45, 55, 55, 55, 65, 65, 65, 65, 65

Unit 6 – Length and Area			
Topic	Video	Resource	
Area of rectangles and triangles	Watch this And this	Complete this And this	
Perimeter of shapes	Watch this	Complete this Check your work	
Area of parallelogram	Watch this	Complete this Check your work	
Area of trapezium	Watch this	Complete this Check your work	
Area and circumference of circles	Watch this	Complete this Check your work	





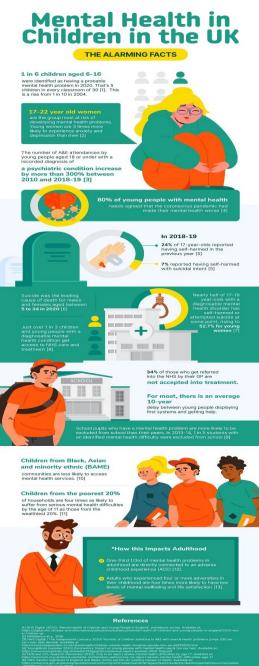


	Half Term 1: Tier 3 Vocabulary		
#	Key word	Definition	
1	Variable	a quantity that may change within the context of the problem	
2	Relationship	the link between two variables (items). E.g. Between sunny days and ice cream sales	
3	Correlation	the mathematical definition for the type of relationship	
4	Origin	where two axes meet on a graph.	
5	Line of best fit	a straight line on a graph that represents the data on a scatter graph.	
6	Outlier	a point that lies outside the trend of graph.	
7	Quantitative	numerical data	
8	Qualitative	descriptive information, colours, genders, names, emotions etc.	
9	Continuous	quantitative data that has an infinite number of possible values within its range.	
10	Discrete	quantitative or qualitative data that only takes certain values.	
11	Frequency	the number of times a particular data value occurs.	

Notes:		
•••••		
•••••		
•••••		
•••••		

Half Term 1: Tier 3 Vocabulary		
#	Key word	Definition
1	Area	Space inside a 2D object
2	Perimeter	Length around the outside of a 2D object
3	Pi (π):	The ratio of a circle's circumference to its diameter.
4	Perpendicular:	At an angle of 90° to a given surface
5	Formula	A mathematical relationship/ rule given in symbols. E.g. b x h = area of rectangle

Notes:
•••••



Knowledge Goals: PDev





-Sleep-

-Stretching-

-Walking-

-Diet-

-Yoga-

-Rest-

..

PERSONAL

-Loving Your True Self-

-Personal Identity-



Emotional Intelligence-

-Stress Management-

-Emotional Maturity-

-Forgiveness-

-Kindness-

-Reflection

SPACE

-Healthy Environment

-Security & Stability-

-Positive Surroundings-

Equality, Diversity and Inclusion

The Equality Act 2010 identifies the following

Pregnancy and Maternity

as Protected Characteristics:

It is about you

many apply

to you?



-Friends & Family-

-Support Systems

-Safe Boundaries-

-Positive Media-

-Communication

-Asking For Help-

FINANCIAL

-Saving-

-Budgeting-

-Splurging-

Disability

Gender

Reassignment

Race







-Meditation-

-Keeping A Diary-

-Yoga-

-Music-

WORK

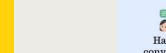
-Positive Workplace

-Time Management-

-Learning-

-Breaks-

CAMHS









the UK

TRUST

An estimated

105,200 people are living with HIV in the UK in



drop in new HIV transmissions since 2018 and a

Effective treatment for HIV suppresses the virus to such low levels that it can't harm you

Some groups of people are affected by HIV

There are many ways to

Getting regularly tested for HIV if you are

Taking PrEP or PEP (tablets which prevent

exposed to it)

Using condoms

Never sharing needles Taking your medication if you are living with HIV

In 2019

there was a

and you can't pass it on.

HIV can't be passed on through things like touching kissing, sharing cutlery or glass

HIV can be passed on through sex without a condom but only if a person is not on effective treatment.

It can also be passed on through sharing needles and during pregnancy (but in the UK this is extremely rare

drop since 2014

6,600 people do not know they have HIV

98%

which means they can't pass on the virus

of people diagnosed with HIV in the UK are on treatment, and 97% have an undetectable viral load -

4.2% were diagnosed late

people were diagnosed

with HIV in the UK in

2019. Of those





Knowledge Goals: PDev

	Half Term 3: Tier 3 Vocabulary		
1	Investment	the idea of doing something which may make life a tiny bit harder for now, in order to reap much bigger benefits in the future.	
2	Self-Managers	people who take control of their own behaviour, failures and successes and do not blame or credit others with their actions.	
3	HIV/AIDS	a disease that can spread easily and often causes death. Has had the biggest impact in Africa.	
4	Right to education	Right to education – one of the 30 Human Rights to which we are all entitled.	
5	Interpersonal skills	The skills you use to successfully communicate and work with other employees, such as your listening skills, your personal attitude and how you speak to others.	
6	Prejudice	judging someone based on ideas you already have about someone with certain characteristics.	
7	Discrimination	when prejudices are acted upon resulting in the unfair treatment of someone	
8	Growth Mindset	The idea that your mind will not always be the same and can be shaped to achieve what you would like it to, through hard work, dedication and resilience.	
9	Mental health	like physical health, a measure of how well a person is, just in their mind instead of their body	
10	Stress	a state of mental or emotional strain resulting from difficult or demanding circumstances.	

Notes:



Knowledge Goals: PE



Badminton

- □ **Serving** I can perform the backhand and forehand serve with accuracy, landing the shuttle in the opponents' service box.
- ☐ The Clears I know that the clear is a defensive stroke and can be used to slow the pace of the game and regain position on court
- ☐ The Drop Shot I understand that the drop shot is an attacking shot and why.
- ☐ The Smash I can hit the shuttle with power and land the shuttle mid court, showing good accuracy.
- **Net Play** I can accurately hit the shuttle low over the net and land close to the net.
- ☐ Game Play I know which side of the court to serve from depending on if the score is odd or even.



Hockey

- □ Ball Control I can use reverse stick at the appropriate times to control the ball.
- □ Passing I can demonstrate passes at increasing variety, speed and accuracy. On reception I rotate the stick forward to ensure the ball is trapped and available.
- □ **Dribbling** I can move at speed with the ball avoiding challenges by changing speed or direction.
- ☐ **Tackling** I can apply the block tackle effectively and safely in game situations on many occasions.
- ☐ Game Situations I can organise effective attacking opportunities quickly in free hit situation.

Football



- □ Ball Control I can control the ball with most body parts with some consistency
- ☐ Passing I can occasionally pass the ball accurately using different parts of my foot whilst under *pressure*.
- □ **Defending** I can decide whether to commit to a tackle or *jockey* my opponent.
- ☐ **Dribbling** I can dribble the ball for some distance as long as it's on my stronger side.
- □ **Shooting** I can accurately shoot from a moderate distance using different techniques.
- ☐ Game Situations I move into space in games and communicate with teammates and can maintain *possession* while decision making.

Netball

- ☐ Passing I can effectively pass a ball to a player in a game situation.
- □ Footwork I can demonstrate good use of the footwork rule in a game situation. I can pivot on my landing foot consistently.
- □ Attacking skills I am able to re-offer under pressure from a defender to create space to receive the ball.
- □ **Defending skills** I am able to cleanly intercept a ball with two hands in a small game situation.
- ☐ Game Situations I am able to demonstrate a basic set play in a game situation with little or no pressure.

Gymnastics

- ☐ Floor I can perform a paired sequence, performing advanced movements showing consistently high levels of control and tension.
- ☐ Jumps I can successfully incorporate a variety of jumps to change the level of a sequence.
- □ Apparatus I can adapt the apparatus to perform a multi-move sequence using a range of vaults with correct technique.
- □ Performance I can evaluate another group's sequence, making specific suggestions on how to improve the level of their performance.



England Rugby

Rugby y – I can demonstrate pri

- □ Evasion/Support Play I can demonstrate principles of attack when to penetrate or out flank. I can support in different formations including 'magic diamond'.
- □ Passing & Catching I can pass and catch a ball over a longer distance with some accuracy, making decisions on the weight and length of the pass. Developing skills for quick passing to maximise potential overlaps
- □ Tackling/Defensive Strategies I can demonstrate the principles of defence, denial of space, pressure, open gate, tackle, cover and regain possession
- Rucks & Mauls I can set up a micro maul or micro ruck if none of the 'continuity' options are possible.
- ☐ Game Play I can plan and execute set piece plays from a 'scrum' or 'line out'

Knowledge Goals: PE

Half Term 1: Tier 3 Vocabulary		
#	Key word	Definition
1	Reverse Hit (Tomahawk)	Hit on your reverse side, can be a pass or a shot. Keeps the speed of play up.
2	Anticipation	The ability to quickly and accurately predict the outcome of an opponent's action before that action is completed.
3	Disguise	Ability to deceive the opponent with fake movements or passes.
4	Line Breaks	An attacking player gets through the opponent's defensive line while in possession of the ball.



Badminton



Football



Hockey

Netball



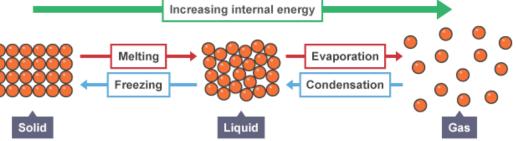
Rugby Union

Notes:	
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Knowledge Goals: Physics – Internal energy

Internal energy and heating substances

When substances are heated, the internal energy store of the substance is increased. This can either change the temperature or the state of the substance, but not both at the same time.



Changing temperature

- When energy is shifted into a body its temperature can increase.
- During a change of temperature, energy is shifted in or out of the kinetic energy store of particles.
- The amount of heat stored or released as a substance changes temperature can be calculated using the equation:

energy = mass × specific heat capacity × temperature change

The specific heat capacity of a material is the energy required to raise one kilogram (kg) of the material by one degree Celsius (°C) without a change of state.

Changing state

- When energy is shifted into a body at its melting or boiling point, it will change state.
- Temperature remains constant during a change of state.
- During a change of state, energy is shifted in or out of the potential energy store of particles.
- Forces of attraction between particles are weakened during melting and overcome during boiling.
- The amount of heat stored or released as a substance changes state can be calculated using the equation:

energy = mass × specific latent heat

• Specific latent heat is the amount of energy required to change the state of 1 kilogram (kg) of a material without changing its temperature.

Knowledge Goals: Physics – Internal energy

Calculating energy for a change of temperature

How much energy is needed to raise the temperature of 3 kg of copper by 10°C?

energy = mass \times SHC \times temperature change = $3 \times 385 \times 10$ = **11 550 J**

How hot does a 3.5 kg brick get if it's heated from 20°C by 400 kJ?

 $400 \text{ kJ} = 400\,000 \text{ J}$ energy = mass × SHC × temperature change $400\,000 = 3.5 \times 840 \times \text{temperature change}$ temperature change = $\frac{400\,000}{3.5 \times 840} = 136 ^{\circ}\text{C}$ final temperature = $20 + 136 = 156 ^{\circ}\text{C}$

Material	Specific heat capacity (J/kg°C)	
Brick	840	
Copper	385	
Lead	129	

Calculating energy for a change of state

How much energy is needed to melt 500 grams (g) of water at 0°C?

500 g = 0.500 kg334 kJ/kg = 334 000 J/kg

energy = mass \times SLH = 0.500 \times 334 000 = **167 000 J**

Substance	Specific latent heat of fusion (kJ/kg)	Specific latent heat of vaporisation (kJ/kg)
Water	334	2260
Lead	22.4	855
Oxygen	13.9	213

Solving calculations

- 1 Equation
- 2 Units
- 3 Substitute
- 4 Re-arrange
- 5 Solve

Re-arranging

You may need to:

- Swap sides.
- Do the same thing to both sides.

Knowledge Goals: Physics – Internal energy

	Half Term 3: Tier 3 Vocabulary		
#	Key word	Definition	
1	specific heat capacity	The amount of energy required to raise the temperature of 1 kg of a substance by 1°C without a change of state.	
2	internal energy	The energy stored by the atoms and molecules that make up a system. It is equal to the sum of the total kinetic and potential energies of the particles in the system.	
3	latent heat	The energy required for a substance to change state.	
5	specific latent heat of fusion	The amount of energy needed to change the state of one kilogram of a substance from solid state to liquid state, whilst held at constant temperature.	
6	specific latent heat of vaporisation	The amount of energy needed to change the state of one kilogram of a substance from liquid state to vapour state, whilst held at constant temperature.	
7	sublimation	The direct changing of a substance from a solid state to a vapour state, without passing through the liquid phase.	

Notes:

Knowledge Goals: Year 9 Judaism

Judaism is one of the world's major religions. It is the world's 10th largest religion, with about 14.6 million followers. It is around 4,000 years old.

Jews are the people who follow Judaism. Like Christians and Muslims, Jews believe that there is only one God, who created the world and everything in it.

Abraham is seen as the father of the Jewish religion. Jews believe that Judaism began when he started worshipping one God instead of many.

Judaism began in the Middle East – but there are now Jewish people all across the world.

The main holy book of Judaism is the Torah, written in Hebrew. Synagogues are Jewish worship buildings.

Image of the Great Synagogue of Florence, in Italy, Europe.



Jewish Beliefs

The Four Stages of Life

- -Jews believe in four important stages of life, and mark each with a religious ceremony.
- -The four are: birth, becoming an adult, marriage and death.
- -When Jewish boys (aged 13) and Jewish girls (aged 12) become Jewish adults, they have a bar mitzvah (for boys) or bat mitzvah (for girls) ceremony. At these ages, Jewish religion, law and social life judges that the boys and girls become responsible for their own actions. The ceremony is usually held on the first Shabbat (Jewish day of rest) after their birthday. In a bar mitzvah ceremony, a boy must read passages from the Torah.

The Story of Abraham

- -Abraham is an important figure in Judaism, Christianity and Islam. His story is told in the Genesis section of the Bible.
- -According to the story, Abraham made an agreement with God, in which he promised to be faithful and to teach his laws to the world. In return God gave Abraham and his descendants the land of Israel. Even though Abraham was 99, and his wife Sarah 90, God enabled them to have a son, Isaac, forming the first Jewish family.

Ceremonies and Festivals

- Jews enjoy many ceremonies and festivals as a part of their religion.
- -Passover takes place in March or April, and is when Jewish people remember how God brought them out of Egypt (the Exodus). A special meal is created to remind the Jews of the good and bad times in the past. It includes hard boiled egg, parsley, boiled potato, lettuce, horseradish, chopped apples and walnuts.
- -Hannukah takes place in December and is known as 'the Jewish festival of lights.' People light candles, exchange presents, and eatfoods such as latkes (notato pancakes) and sufganiot (iam doughnuts).

Answers to Important Questions



Where and how do Jews worship?



- -Synagogues are where Jewish people go to worship.
- -In Orthodox synagogues, men and women sit separately. In progressive synagogues, men and women can sit together and worship.
- -Synagogues have large rooms for prayers, and normally smaller rooms for studying.
- -The front of a synagogue faces towards Jerusalem.
- -There is always a raised platform called a Bimah.

What is the Torah?



- -The Torah Is the Jewish holy book.
- -They are written in Hebrew on rolls of parchment. The scrolls are never touched when they are read from – readers use a pointer called a yad.

Where do most Jews live in the world?

there?



- -There are around 14.6 million Jews in the world.
- -Two countries the United States and Israel have 81% of the world's total Jewish population.
- -Some of the other countries with substantial Jewish populations include France, Canada, Russia, the United Kingdom, Argentina and Germany.
- -There were 17 million Jews in 1939, but this was reduced to 11 million by 1945 due to the Holocaust.
- How many different types of Jews are

-There are many different branches of Judaism.

- -Some Jews still follow all of Judaism's original laws and customs - these are called Orthodox Jews.
- -Jews who do not follow all of these traditions are called Progressive Jews. Progressive Jews are happy to be flexible with

Top 10 Facts

- Jews believe in one God, that is a spirit and has no physical form.
- A kippah is the clothing item that many Jewish men wear on their head.
- Praying is very important in Judaism there are prayers for every occasion.
- Jesus was born into the Jewish religion, but began preaching his own ideas.
- Many Jewish homes have a family box, and give to those in need.

- 6. Strict Jews are not allowed to travel or watch TV on the day of Shabbat!
- 7. Jewish New Year takes place in September/ October time, and is called Rosh Hashanah.
- 8. Jews fast for 25 hours and pray during Yom Kippur.
- 9. Anne Frank was a famous Jewish girl, who was killed in the Holocaust.
- 10. The Anne Frank House and Secret Annex, in Amsterdam, Netherlands, remains one Europe's busiest tourist attractions

Knowledge Goals: Year 9 Judaism

Term 3: Tier 3 Vocabulary		
#	Key word	Definition
1	Judaism	the monotheistic religion of the Jewish people.
2	Synagogue	the building where a Jewish assembly or <u>congregation</u> meets for religious worship and instruction
3	Passover	the major Jewish spring festival which <u>commemorates</u> the <u>liberation</u> of the Israelites from Egyptian slavery, lasting seven or eight days from the 15th day of Nisan.
4	Hannukah	a lesser Jewish festival, lasting eight days from the 25th day of Kislev (in December) and commemorating the rededication of the Temple in 165 BC by the Maccabees after its desecration by the Syrians. It is marked by the successive kindling of eight lights.
5	Bar Mitzvah	the <u>initiation</u> ceremony of a Jewish boy who has reached the age of 13 and is regarded as ready to observe religious <u>precepts</u> and eligible to take part in public worship.
6	Bat Mitzvah	a religious <u>initiation</u> ceremony for a Jewish girl aged twelve years and one day, regarded as the age of religious <u>maturity</u> .
7	Shabbat	The Jewish day of rest and celebration that begins on Friday before sunset and ends on the following evening after nightfall. It is ushered in with (late afternoon) candlelighting, prayers, and feasting on braided bread and other delicacies. And its end is marked with a multisensory ceremony as well
8	Torah	the overall body of Jewish religious teachings encompassing the whole body of Jewish law, practice and tradition

Notes:

Knowledge Goals: Music - Britpop



Knowledge Goals: Music - Britpop

Half Term 3: Tier 3 Vocabulary		
#	Key word	Definition
1	Hook	A short, catchy passage or phrase of music.
2	Riff	A repeated chord progression
3	Middle 8	a section in a song that tends to happen towards the middle of the song, and tends to be eight bars in length.
4	Chorus	a section of a song that is repeated at least twice
5	Outro	The end of the song.
6	Intro	The beginning of the song where the mood is set.
7	Brit-Pop	British pop music of the mid 1990s that was typically influenced by the Beatles and other British groups of the 1960s
8	Grunge	distortion-filled, down-tuned and riff-based rock
9	Chord	2 or more notes played at the same time.
10	I-IV-V-Vi	The chords which are predominantly used to make Brit Pop Music.



Oasis, Blur, Manic Street Preachers, Reef, Blur, Travis, Elastica,

Knowledge Goals: Spanish

¿Te interesa(n)?	Are you interested in?	la tecnologia	technology
el arte dramático	drama	los idiomas	languages
el dibujo	art / drawing	las empresariales	business studies
el español	Spanish	las matemáticas	maths
el inglés	English	las ciencias	science
a biología	biology	la asignatura	subject
a educación física	PE	¿Qué opinas de?	What do you think of?
la física	physics	me encanta(n)	I love
a geografía	geography	me chifla(n) me interesa(n)	I love I'm interested in
a historia a informática	history ICT	me gusta(n)	Llike
a lengua	language	no me gusta(n)	I don't like
la química	chemistry	odio	I hate
la religión	RE	prefiero	l prefer
Cómo son tus profes?	What are your teachers like?		
Mi profe (de inglés) es	My English teacher is	aburrido/a	boring
joven	young	gracioso/a	funny
viejo/a	old	serio/a	serious
severo/a	strict	simpático/a	nice / friendly
tolerante	easy-going	antipático/a	unfriendly
impaciente	impatient	más divertido/a que	more fun than
paciente interesante	patient interesting	menos creativo/a que tan interesante como	less creative than as interesting as
		tan interesante como	as mieresung as
Qué llevas en el insti? (No) llevo	What do you wear at school? I (don't) wear	rojo	red
(No) Ilevamos	We (don't) wear	morado / violeta	purple
Tengo que llevar	I have to wear	naranja	orange
Tenemos que llevar	We have to wear	rosa	pink
un jersey (de punto)	a (knitted) sweater	azul	blue
un vestido	a dress	verde	green
una camisa	a shirt	gris	grey
una camiseta	a t-shirt	marrón	brown
una chaqueta (a rayas)	a (striped) jacket	oscuro / claro	dark / light
una chaqueta de punto	a cordigan	a rayas / a cuadros	striped / checked
una corbata	a tie	bonito / feo	pretty / ugly
una falda	a skirt	cómodo / incómodo	comfortable / uncomfortable
unos pantalones	trousers	formal / informal	formal / informal
unos calcetines	socks	elegante	smart
unos zapatos	shoes	práctico El uniforme	practical
unos vaqueros unas medias	jeans	mejora la disciplina	Uniform improves discipline
amarillo	tights yellow	limita la individualidad	limits individuality
blanco	white	Las diferencias económicas	The economic differences
negro	black	no son tan obvias.	are not as obvious
Cómo es tu insti?	What is your school like?		
En mi insti hay	In my school there is	amplio(s)	spaciaus
Mi insti tiene	My school has	pequeño(s)	small
un salón de actos	a hall	feo(s)	ugly
un comedor	a canteen	atractivo(s)	attractive
un campo de fútbol	a football pitch	lo bueno / malo es que	the good / bad thing is that.
un patio	a playground	lo mejor / peor es que	the best / worst thing is that
un gimnasio	a gym	nini nada	(n)eithernor nothing / anything
una piscina una biblioteca	a pool a library	tampoco	notning / anytning not either
una pista de tenis	a tennis court	En mi escuela primaria	In my primary school
una pista de tenis unos laboratorios	a tennis court some laboratories	(no) habia	there was/were (not any).
muchas aulas	lots of classrooms	exámenes	exams
Mi instituto / colegio es	My school is	deberes	homework
mixto	mixed	instalaciones (deportivas)	(sports) facilities
femenino / masculino	all girls / all bays	actividades extraescolares	extra-curricular activitie
nobline / neimale	and for the same	la advanción infantil	ner reheat advention

la educación infantil

el bachillerato

el instituto

la educación primaria

la educación secundaria

la formación profesional

pre-school education

secondary education

primary education

vocational training

secondary school

A levels

público / privado

Los edificios son...

El edificio es...

nuevo(s)

antiguo(s)

moderno(s)

state / private

The buildings are...

The building is...

modern

¿Cómo vas al insti?	How do you get to school?		
Voy al insti	I go to school	Las clases empiezan a las	Lessons start at
a pie / andando	on foot / walking	y terminan a las	and finish at
en bici	by bike	Tenemos clases	We have lessons
en autobús	by bus	al día	per day
en coche	by car	por la mañana	in the marning
en metro	by underground	por la tarde	in the afternoon
en taxi	by taxi	Cada clase dura	Each lesson lasts
en tren	by train	el recreo	break
Salgo de casa a las	I leave home at	la hora de comer	lunch

Cuáles son las normas de tu insti? Está prohibido It is forbidden No se permite You are not ollowed comer chicle usar el móvil en clase Ilevar uniforme ser agresivo o grosero to be aggressive or rude correr en los pasillos Ilevar piercings ser puntual salir del instituto durante el dia escolar What are the rules in your school? It is forbidden estoy de acuerdo I disagree Idaigree Idaigree In my opinión, In my opinión, It hink that it's fair it's unfair se sinjusto it's unfair it's not fair Qué val No way! Ilevar piercings to have visible piercings ser puntual to leave the school during necesary demasiado severas to strict	Salgo de casa a las	I leave home at	la hora de comer	lunch	
	de tu insti? Está prohibido No se permite No se debe comer chicle usar el móvil en clase llevar uniforme ser agresivo o grosero correr en los pasillos llevar piercings ser puntual salir del insituto durante	in your school? It is forbidden You are not allowed You / One must not to chew chewing gum to use your phone in lessons to wear a uniform to be aggressive or rude to run in the corridors to have visible piercings to be on time	no estoy de acuerdo En mi opinión, Pienso que / Creo que es justo es injusto no es justo ¡Qué va! Las normas son buenas / malas necesarias	I disagree In my opinión, I think that It's fair It's unfair It's unfair It's not fair No way! The rules are good / bad necesary	

el dia escolar	the school day	demasiado severas	too strict
Hay problemas en tu insti? In problema es el estrés de los exámenes el acoso escolar la presión del grupo estoy estresado/a. engo miedo de suspender mis pruebas. probar mis exámenes	Are there problems in your school? One problem in my school is exam stress builtying peer pressure I am stressed out. I am scared of fail(ing) my assessments. pass my exams	Hay (algunos) alumnos que intimidan abusan sienten pánico hacen novillos quieren ser parte de la pandilla son una mala influencia	There are (some) pupils intimidate abuse feel panic skip lessons want to be part of the gang are a bad influence

ué vas a hacer?	What are you going to do
a	I'm going to
nos a	We're going to
participar en un intercambio	take part in an exchange
riajar con mi clase	travel with my class
onocer	meet / get to know
isitar	visit
legar	arrive
star	be
cirtie a clarec	attand laceans

clothes

asistir a clases	attend lessons
citos	Successes / Achievements
actico el judo	I do / have been doing judo
co la trompeta	I play / have been playing the trumpet
into en el coro	I sing / have been singing in the choir
y al	I go / have been going to
club de (ajedrez)	(chess) club
v miembro del	I am / have been a member of the
club de teatro	drama club
club de periodismo	reporters club
club de lectores	reading club
club de fotografía	photography club
esde haceaños	for years
trimestre pasado	last term
participé en	I took part in
un maratón	a marathon
un torneo	a tournament
SAMEANIANA	

a championship

a competition

un campeonato

un concurso

hice / hicimos
una prueba
una pelicula
gané / ganamos
un trofeo
un premio
toqué un solo
¡Fue un éxito!
este trimestre
el próximo trimestre
voy a continuar con
voy a ir al club de
Los clubs extraescolares
son divertidos / geniales /
interesantes
Te ayudan a
aprender cosas interesantes
hacer nuevos amigos

I did / we did ... a test / exam a film I won / we won... a trophy a prize I played a solo It was a success! this term next term I'm going to continue with... I'm going to go to ... club Extra-curricular clubs... are fun / great / interesting They help you to... learn interesting things

make new friends

s who...

Knowledge Goals: Spanish

Half Term 1: Tier 3 Vocabulary		
1	SSC	Symbol-Sound Correspondence: the sound that letters or combination of letters make in a language
2	cognate	A cognate is a word which looks the same or very similar to a word in English. E.g.: le cinéma, le football
3	connective	A word which links sentences together. E.g.: and, but
4	Opinion verb/ phrase	A verb or a phrase which you use to give an opinion: I like, I dislike, in my opinion etc
5	Justifier	A way of giving a reason, a justification of an opinion. I like because it is
6	qualifier	A word which changes the intensity of an adjective: quite, very, extremely
7	adjective	A describing word: big, small, green, interesting, amusing etc
8	Time phrase	A phrase used to say when something is happening: normally, on Mondays, yesterday, next weekend
9	Tenses	Past, present, future, conditional
10	Infinitive	A verb as you find it in the dictionary: to play, to eat. This is the form of the verb when it is not used with a pronoun (I, he, she)

Notes:

