## 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

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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 <br> (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 <br> (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 |  |  |  |

## 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



## 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

- Temperature - an increase causes particles to move more rapidly and increases the rate of diffusion
- Surface area - the larger the surface area the higher the rate of diffusion
- Concentration difference - 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 partially permeable 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

|  |  | Half Term 3: Tier 3 Vocabulary |
| :---: | :---: | :--- |
| $\#$ | Key word | Definition |
| 1 | Diffusion | Spreading out of particles (gas/solution) resulting in a net <br> movement from an area of high concentration to an area of <br> low concentration |
| 2 | Osmosis | Diffusion of water from a dilute (high water potential) solution <br> to a concentrated (low water potential) solution through a <br> partially permeable membrane |
| 3 | Active Transport | Movement of substances from a more dilute solution to a <br> more concentrated solution (against a concentration gradient). <br> Requires energy |
| 4 | Concentration <br> gradient | The greater the difference in concentration, the faster the rate <br> of movement |
| 5 | Turgid | Swollen, filled with fluid <br> 6$\quad$ Flaccid | | Loose, floppy, shrunken |
| :--- |
| 7 |

## 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


A formulation is a mixture which has beendesigned 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.


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 <br> in a test tube | Splint relights | Oxygen is present |
| Lighted splint held in <br> a test tube | Pop sound heard | Hydrogen is present |
| Gas bubbled <br> through limewater | Limewater turns <br> milky or cloudy <br> white | Carbon dioxide is <br> present |
| Damp litmus paper <br> 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 <br> completely with a solvent. |
| 7 | Chromatography | is a technique used to separate mixtures of soluble substances. |
| 8 | Formulation | A mixture which has beendesigned as a useful product. |



## Knowledge Goals: Computer Science Python programming <br> Decide beiween options

## Variables

## Creating a variable

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

## Interact with the user (input and output)



| Comparative operators |  |
| :--- | :--- |
| $==$ | Equal to |
| $!=$ | Not equal to (or different to) |
| $\rangle$ | Greater than |
| $\langle$ | Less than |
| $\rangle=$ | Greater than or equal to |
| $\langle=$ | Less than or equal to |


| Data types |  |  |  |
| :--- | :--- | :--- | :---: |
| Data Type | This indicates how the data will be <br> stored. The most common data <br> types are integer, string, and <br> float/real. | Casting code |  |
| String | A combination of letters, numbers <br> or characters. (eg, Hello, WR10 <br> 1XA) | str(x) |  |
| Integer | A whole number. (eg. 1, 189) | int(x) |  |
| Float/Real | A decimal number, not a whole <br> number. (eg. 3.14, -26.9) | float(x) |  |
| Boolean | 1 of 2 values. (eg. True, False, Yes, <br> No) | bool(x) |  |
| Char | A single character | char(x) |  |

Repeat a block (a fixed number of times)


Decide to run a block (or not)

$$
\begin{aligned}
& x=3 \\
& \text { if } x=3: \\
& \text { print }\left({ }^{1} x \text { is } 3^{\prime}\right)
\end{aligned}
$$

Decide between two blocks
mark $=80$
if mark >= 50: print('pass')
else: print('fail')
Decide between many blocks
mark $=80$
if mark >= 65:
print('credit')
elif mark >= 50:
print('pass')
else:
print('fail')
,elif can be used without else
-elif can be used many times

| 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 |

Are two values equal?
$x=3$
$\triangle$ two equals signs, not one
Are two values not equal?

$$
x \quad!=3
$$

Less than another?
$x<3$
Greater than another?


Less than or equal to?
$x<=3$
Greater than or equal to?
$x>=3$
The answer is a Boolean:
True or False

## 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 computerbut does not perform as the programmer expects. |
| 10 | Operator | A character that represents a specific mathematical or logical action or process. |

## Notes:

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> 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 royalty.
- 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.

First time tha was determined by how much an audience member could pay

Audiences and actors were EDUCATED

## The <br> FORMALIZATION of theatre arts.

Costumes were very colorful and based on social rank of the CHARACTERS

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.

| Shakesp |
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| $64-1616$ ) |


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## Notes:

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

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Began MIXING genres

## Knowledge Goals: Drama - Elizabethan Theatre

## Half Term 1: Tier 3 Vocabulary

| \# | Key word | Definition |
| :---: | :---: | :---: |
| 1 | lambic 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) |
|  |  |  |



## Knowledge Goals: English Language

## Text Selection

## A Monster Calls <br> Frankenstein <br> Robin Hood <br> The Sword and the Stone Theseus and the Minotaur IT

## Horme Learning Tasks:

1) Complete 15 minuters of reading every night, urling vour AR book.
2) Complete the vocabulary acquisition quizzes, set on Teams every fortinight.
3) Using this knowledge organiser; learn and review the key lingredients of crafting affectlve narratives.
4) Peend ait least one fest from the wider readingelist

CORE ASSESSMENT SKILLS AND WHAT STLIDENT ARE EXPECTED TO WPITL

- Application of language techniques [ALT]
- Applicatinn of structural techniques (AST)
- [ffective paragraphing (EP)
- Sentence variety (SV)
- Moad atmasphere (MA)

Frankenstein by Maryshedley
had selected his features as beautiful. Beautifull Great God! His pellow skin scancely covered the work of muscles and arteries beneath; his hair was of a lustrous black, and flowing; his teeth of a peark whiteness, but these lluxuriances anly formed a more horrid contrast with his watery epes, that seemed almost of the same colour as the dun-white sockets in which they were set, his shrivelled complexian and straight black lips.

The different accidents of life are not sa changeable as the feeling of human nature. I had worked hard for nearly twa Hears, for the sole purpose of infusing life into an inanimate body. For this il had deprived myself of reat and health.

| Sentence TYpes |  |  |
| :---: | :---: | :---: |
| Simple sentence | For short sentences wou want to emphasitse. | She was lost. |
| Campound sentence | Twa sentences connected with a coordinating eonjunction $=$ FANDOMS: for, and, nor, but, or, vet, so. | She was lost, but she was not beaten. |
| Camplex sentence | Needs a commal Qpens with a subardinating canjunction: because, if, although, since, until, and while. | While the sum whe setting, the creatures swarmed out of their hales. |
| Embedded clause | Extra information in the middle of a sentence, behawing like brackets. You cauld atso use brackets! | His eves, although twitching and fogged, spotted the movement of lher dress like a havk. |
| Holophrastic sentence | A one-ward sentence; great for emphasising short phrases or vords becatue vou are banned from words all in capital lletters) | She darted inta the voods for coverr, lasing herself deeper and thicker and mindlessly lower into the cald farest. Darkness. |
| Triad | 3 adjectives. | His cracked, blood-shot and untamed epess sanned the silent roomi. |
| Staccata | A series of short sentences to build up tencion ar panie. | She let out the whisper of a gasp. His eres darted. She froze. A scurry. A snap. Footsteps? Silence. |


| Language Techniques (imagery) |  |  |
| :---: | :---: | :---: |
| Metaphor | A comparison: a figure of speech in which a word or phrate is applied to an abject pr action to which it is not literally applicable. | Speckled, marquise diamonds began ta illuminate the night skyNettles: a curious name for those green spears. |
| Metaphar- personification | A comparisan: gwing any human attribute to pbjects. Focusing on human actions might simplify this. | The vines strangled the gasping rose, creaping stealthily toward the decrepit, crumbling fence. |
| Metaphor - pathetic fallary | A comparison: giving emotions to abjects. often effective when linked to the weather. | As the light faded, the dejected and sullen daffadils cocooned into themselves. Tiring of the pressure to perform, the sun crept away in exhaustion. |
| Simile | An explicit comparison where you imake clear that you are imbaking a comparison - often using the words "like", "as" or "than" | The stars illuminated the sky like speckled, marquise difamonds. The nettles were as sharp and dangerous as spears. <br> The vines were geoverleadly than a wiper looking far its newt kill. |
| Use of the 5 senses | Building a clear sense of place try drawing an what can loe seen, heardi, smelt, felt andi, possibly, tasted. Avpid 'I could Thear...l cauld see cete." - try and be mare creative and less atrvisus. Niaybe a full paragraph focused on sounds for example. | Elefore ll opened mif eyes, the harsh light prickled my evelids. My tangue, like sandpaper after 24 hours without water, felt swollen and olatrusive in my mouth. Ptustlings of unkncwum voices copupled with a crunching of distant leaves forced ime to fiace ficcts: I was not alone. Afetid and putrid stench of death seemed to lhave concumed the air- |
| Sibilance thellps create anmmateppeic words) | Type of aliteration: repetition of soft conscmants to create a hissing sound or gentle, whistling effect (depending on the at mosp there being created). \&c.eh...ss st tion... | The shrieking and screeching of the icy winds pierced my ears. The sweet smell of honepsuckle, trowsily swam through the shafts of sunlight. |
| Plasives (helps create andmatopoeic wards) | Sounds in words which are aggressive and explode through the imouth: $t, k / c, p_{p} d, E$ and $b$. Think of swear words which wou can really spitt out of your mouth with anger! | The pounding clatter of dank, tepid rain on the arscked and shurdering fence echoed loudly around the desplate vard. |


| Structural Techmiques |  |  |
| :---: | :---: | :---: |
| Zowiming in | Focus in min a description of a particular detail or action. | Diraw attention toa samething meaningfull symbalic or relewant to plat. |
| Zobiming aut | Focus an a descriptipn of the setting ar action on a browater salale. | Frame the bigger picture for the reader - perihaps to gain perspective or focus an a dietail of the weather /maribe to meflect the atmosphere or mood usine pathetic fallacy. Maybe weather basedl. |
| Shift in fiocus | Where the writer moves fram foccusing an one idea andi mowing onto another. | Draw our attention to an important detail. Perlhaps maves the plot formand. |
| Flashinack | Jump backe ta ant earlier period in time. | Prowicle relevant dietails far the reader needed to understand events - perhaps after starting in the imiddle of the action to create llote of innanswered questions. |
| Shift in atmasphere | Mowe fromi Bne tone, feeling cir imbad ta annother. | To indicate achange - perhaps in characters feelings or to introduce a threat- |
| Shift in pace | Mowe from slave paced to a faster pace on wicevers. | Build tensian. Dearease tension. |

## Suggested Reading List

Old Gods New Tricks
By Thidend de Maraes The Girl Wha Fel Eeneath the Sea By Auie Oh
The Chocolate Touch
The Chocolate Touch
By Patrick Skene Catling

Godnesses and Heroines: Women of Niyth and Legend Dy Ganthe Gresham-Knight
Lore
By Allexandira Bracken
Dragon Pearl
By fridon Lee

South Asian Folktales, Myths and Legend
Dy Sarah Shaffi
Curse of the Night Witch
By Alex Astier
Pister Creecher
ByChris Priestley

## Knowledge Goals: Food Technology

 - Keep ready-to-eat foods away
 from raw foods or food allergens - Use designated utensils, cutting
boards, etc. for raw foods and boards, etc.
allergens

- 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


StateFoodSafety (ii)



## 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 acid -Meat, fish, dairy, eggs (animal sources)
-Tofu LBV-these are missing at least one essential amino acid
-Seeds, nuts, beans, pulses, cereals, Quorn (plant
sources) sources)


## Knowledge Goals: Food Technology

| Half Term 1: Tier 3 Vocabulary |  |  |
| :---: | :---: | :---: |
| \# | Key word | Definition |
| 1 | CrossContamination | 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 'rrom farm to fork' |


|  | Notes: |
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Knowledge Goals: French

| La famille <br> les parents <br> le père <br> la mère <br> le beau-père <br> la belle-mère <br> le mari <br> la femme <br> les enfants <br> le fils <br> la fille <br> le frère <br> la sceur | Family members <br> parents <br> father <br> mother <br> stepfather/father-in-law <br> stepmother/mother-in-low <br> husband <br> wife <br> children <br> son <br> doughter <br> brother <br> sister | la demi-soeur <br> le beau-frère <br> la belle-soeur <br> les grands-parents <br> le grand-père <br> la grand-mère <br> les petits-enfants <br> le petit-fils <br> la petite-fille <br> loncle ( $m$ ) <br> la tante <br> le cousin/la cousine | half-sister, stepsister brother-in-law sister-in-law grandparents grandfather grandmother grandchildren grandson granddaughter uncle aunt cousin | L'amitié <br> Je pense que ... <br> Pour moi, ... <br> A mon avis,.. <br> Un(e) bon(ne) ami(e) est ... <br> compréhensif/-ive <br> cool <br> dröle <br> fidèle <br> généreux/-euse <br> gentil(le) <br> honnête <br> modeste <br> optimiste | Friendship <br> I think that ... <br> Forme... <br> In my opinion... <br> A good friend is ... understanding cool funny loyal generous kind honest modest optimistic | patient(e) <br> sensible <br> sympa <br> Un(e) bon(ne) ami(e) ... <br> écoute mes problèmes/ <br> mes secrets <br> discute de tout avec moi aide tout le monde accepte mes imperfections respecte mes opinions a les mêmes centres d'intérêt que moi <br> a le sens de l'humour | patient <br> sensitive <br> nice <br> A good friend ... <br> listens to my problems/secrets <br> talks about everything with me helps everyone accepts my foults respects my opinions has the same interests as me <br> has a sense of humour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| le demi-frère | half-brother, stepbrother |  |  | Les rapports en famille <br> Je m'entends bien avec... <br> Je me dispute avec <br> Je me chamaille avec <br> Je m'amuse avec... <br> Je moccupe de <br> le frère ainís/cadet <br> la sceur ainée/cadette | Family relationships I get on well with ... I argue with... Ibicker with ... I have fun with... Ilook after .. older/younger brother older/younger sister |  |  |
| Les adjectifs de personnalité IV/Elle est ... <br> agaçant(e) <br> arrogant(e) <br> amusant(e) <br> bavard(e) <br> charmant(e) | Personality adjectives He/She is ... annoying arrogant amusing funny talkative, chatty charming | impatient(e) <br> impoli(e) <br> indépendant(e) <br> intelligent(e) <br> marrant(e) <br> méchant(e) | impatient impolite independent intelligent funny nasty/mean |  |  | I/Elle est/a l'air/semble ... <br> dynamique <br> égoiste <br> jaloux/-ouse <br> sẻvère <br> timide <br> travailleur/-euse | He/She is/looks/seems ... <br> lively <br> selfish <br> jealous <br> strict <br> shy <br> hard-working |
| content(e) <br> fort(e) | happy strong | tetu(e) | stubborn, pig-headed | On va sortir <br> Je vais ... <br> aller à un match/au bowling | Going out <br> lam going... <br> to go to a match/the bowing alley <br> to go to the cinema/the swimming pool | voir un spectacle <br> faire du patin à glace/du skate faire les magasins jouer à des jeux vidéo Tu veux venir? | to see a show <br> to go ice skating/skateboarding <br> to go shopping <br> to play video games <br> Do you want to come? |
| Ma description physique J'ai les cheveux ... courts/longs | My physical description I hove... hair short/long | J'ai ... des lunettes | I have... glasses | aller au cinéma/d la piscine |  |  |  |
| raides/bouclés/frisés noirs/bruns/blonds roux/gris/blancs | straight/curly black/brown/blond red/grey/white | des boutons une moustache/une barbe Je suis ... | spots a moustoche/a beard Iam... | Les questions Quand? <br> Avec qui? | Questions When? <br> With who(m)? <br> How are we getting there? | On se retrouve out? On se retrouve à quelle heure? | Where shall we meet? <br> At what time shall we meet? |
| J'ai les yeux... | Ihave...eyes | petit(e)/grand(e) | short/tall | On y va comment? |  |  |  |
| bleus/verts gris/marron | blue/green grey/brown | de taille moyenne mince/gros(se) | of average height thin/fot | Une sortie <br> J'ai contacté un copain/une copine. <br> J'ai quitté la maison. <br> J'ai raté le bus. <br> Je suis allé(e) en ville. <br> J'ai écouté de la musique. <br> J'ai retrouvé mon copain/ma copine. | An outing contacted a friend. lleft the house. | J'ai discuté avec mon copain/ ma copine. | I talked to my friend. |
| En ville <br> la boite de nuit <br> le bowling <br> le café <br> le centre commercial | In town <br> night club <br> bowling alley <br> cafe <br> shopping centre | la piscine <br> la plage <br> le théátre <br> dans | swimming pool beach theatre in |  | I missed the bus. <br> I went into town. <br> Ilistened to music. <br> I met up with my friend. | J'ai mangé un sandwich. <br> J'ai acheté des vētements. C'était super. <br> J'ai passé une très bonne journée. | late a sandwich I bought some clothes. It was great. I had a very good day. |
| le cinéma les magasins la patinoire | cinema <br> shops <br> ice rink | derrière devant entre | behind in front of between | La personne que j'admire Comment s'appelle la personne que tu admires? <br> Mon héros s'appelle ... <br> Mon héroïne s'appelle ... <br> Mon modèle s'appelle ... <br> C'est qui? <br> C'est un pilote de Formule 1. <br> C'est un scientifique. <br> C'est une actrice. <br> C'est une créatrice de mode. <br> Fais-moi sa description physique. | The person I admire What is the name of the person you admire? | I/Elle est ... <br> travailleur/-euse/créatif/-ive, etc. Pourquoi est-ce que tu admires cette personne? | He/She is... <br> hard-working/creative, etc. Why do you admire this person? |
| Quand? <br> aujourd'hui <br> demain <br> ce/demain matin <br> cet/demain après-midi | When? <br> today <br> tomorrow <br> this/tomorrow morning <br> this/tomorrow afternoon | ce/demain soir lundi matin samedi soir | this/tomorrow evening <br> on Monday morning <br> on Saturday night |  | My heroine is called .. <br> My role model is called... <br> Who is he/she? <br> He is a Formula 1 driver. <br> He is a scientist. <br> She is an actress. | cette personne? <br> J'admire (Stromae/Malala, etc.) <br> car il/elle .. <br> a travaillé très dur <br> a joué dans beaucoup de films <br> a gagné beaucoup de courses | Iadmire (Stromae/Malala, etc.) because he/she ... worked/has worked very hard acted/has acted in lots of films won/has won lots of races |
| Les amis <br> l'ami ( m )/le copain <br> l'amie ( f /la copine <br> le petit ami/le petit copain <br> la petite amie/la petite copine <br> Je retrouve mes amis au parc. | Friends <br> (male) friend <br> (female) friend <br> boyfriend <br> girlfriend <br> I meet up with my friends in the park. | Avec mon petit ami, j'čcoute de la musique. <br> Je passe chez ma petite copine. <br> On rigole bien ensemble. <br> On regarde un film ou des clips vidéo. | I listen to music with my boyfriend. <br> I go to my girffriend's house. We have a good laugh together. We watch a film or music videos. | Fais-moi sa description physique. <br> I/Elle est petit(e)/gros(se), etc. I/ELle a les cheveux bruns, etc. Quelle est sa personnalité? | Describe for me what he/she looks like. <br> He/She is ... small/fat, etc. $\mathrm{He} /$ She has brown hair, etc What is his/her personality? | bonnes ceuvres <br> a lutté contre ses problèmes <br> J'aimerais être comme lui/elle. | good couses fought/has fought his/ her problems I would like to be like him/her |
|  |  |  |  | Les mots essentiels tres | High-frequency words very |  |  |
| Je traine en ville avec mes copines. | I hang out in town with my (female) friends. | On joue au foot ou au basket ensemble. | We play football or basketball together. | ${ }_{\text {assez }}$ |  | puis ensuite | then |
| Je tchatte en ligne avec ma meilleure copine. | I chat online with my best (female) friend. | On discute de tout. On mange ensemble au fast-food. | We talk about everything. We eat together at a fast-food restaurant. | $\begin{aligned} & \text { ou } \\ & \text { ou } \\ & \text { hier } \end{aligned}$ | or where yesterday | après <br> plus tard <br> le soir | afterwards later in the evening |

## Knowledge Goals: French

## Half Term 1: Tier 3 Vocabulary

| 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...) |

## Knowledge Goals: What's an ecosystem worth?

ECosentem services


What are ecesyitemer
An ocoryitem [or soolegicalsystem] consists of all the organker and the physial environmentwith which they interet. These biaticand abbticcompenenti are linked togother through futrient cyeleis and onergylowe Energy enters the sytem through photesyonthesis and is incorpornted into plant lisus-sy fordingon plemts and on one another, inimals pley an mpertant rolla in the mewoment of matter sad encry through the symbem. They also influence the quartity of plant and mizobial biomempresent, ©y browing down deaderganic matter, dseomposers relwase carbon back to the atmosphereand facilitatemutriant cyeling by converting mutrimens stared in das biguass bede to a form that cin be faydyund py plant and microberi.

Graseland bomes consist of large open areas of erass. Trees can be present but ther are infrequent.
Low rainfall, wioland fies, and grazine by animals are theefactors that maintain grasslands, ln grassland regions, the climate is ideal for the growthof grasess only. The low precipitation rates are enough tonourlh grases but not enough for a forest of trees. Temperate grasslands, are knoan for their rich soil that vields abundant growth of grasess. Temperate grasslands are found in plaos such as North America and Eastern Europe.
A rainforest is an area of tall, mostly everereen trees and a high amount of icainfall. Bainforests are Earth's oldest lingexosyctems, with some survingin their present form for at kast 70 million wears. They are incredibly diverse and complex, home to

Tropleal rainforest more than half of the world's plant and animal speces-eten though they cover just six percent of Earth's surface. This makes rainforests astoundingly dense with flora and fauna! a 10-square-kilometer (four-square-mile) patch oan contain as many as 1,500 flowering plants 750 species of trees, 400 species of birds and 150 speover of butterfles.
Coral reefs are some of the most dherse ecosystems in the world. Coral palyps, the animals primarily responsible for building resfs, can take many forms: large reef building colonies, graceful flowing fans, and even small, solitari organisms. Thousands of species of corals have been dscovered; some live in warm, shallow, tropical seas and others in the cold, dark depths of the ceean.

Why are cocactene whare they are?
The distribution of large-soale eoasystems. (biomes) is determined by dimate Latitude air pressure and winds are important factoss that determine the climate of a plaxe, Ocean currents act much like a converor belt transporting warm water and precipitation from the equator toward the poles and cold water from the poles back to the tropics.
Sur'a map less intamebuver rym more intense
C. Pressurs cals

## 5 THREATS 70 BIODIVERSITY



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# 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 biologlal system that consists of all the liwing organims (plants and animals) in an area as well as the nonliwing thing with which the organisms interact, In an ecosystem, all the components are interdependent on each other |
| 2 | Blome | Biome refers to the community of plants and animals that occur naturally in an area, often sharing common characteristics specific to that area. Blome, also known as a major life zone, is an area that includes communitles of plants and animals that have a common adaptation to that particular enwironment. |
| 3 | Abiotic | Ablotic factors refer to all the non-liwine, i.e chemical and physical factors present in the atmosphere, hydrosphere, and lithosphere Sunlight, air, precipitation, minerals, and soil are some examples of ablotic factors |
| 4 | Biotic | Biotic factors refer to all living organisms from animals and humans, to plants, fung, and bacteria, |
| 5 | Nutrient cycle | The nutrient cycle is a ystem where energy and matter are transferred between living organisms and non-liwing parts of the environment. This cocurs as animals and plants consume nutrients found in the soil, and these mutrients are then released back into the environment via death and decomposition. |
| 6 | Repulating services | Maintaining the quality of air and scil, providing flood and disease control, or pollinating crops are some of the 'regulating services' prowided by ecosytems. 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, dati-today, 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 | Biomas | Biomass is the mass of living biological organisms in a given area or ecosystem at a given time. Biomass can refer to apecies biomass, which is the mass of one or more species, or to community biomass, which is the mase of all species in the community. |
| 10 | Invasine species | Invasive species are non-native species that have colonised a new area to the point of damaging the surrounding environment and are seen ass one of the top five major threats to cour ecosystem today. They can be brought into a new emwironment from pathwase such as ships, fishing equipment or accidental releases. |

## Notes:

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Knowledge Goals：History－Holocaust

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan 301933 | Sept 151935 | July 151937 | Oct 281938 | Nov 9－10 1938 | Jan 201942 | Oct 71944 | Nov 81944 | April 301945 |
| Hitler becomes Chancellor | Nuremburg Laws | Buchenwald Campopens | Polish Jews expelle from Germany | November Pogrom （Kristallnacht） | Wannsee Conference | Revolt at Auschwitz | Death marches begin | Hitler commits suicide |

1．What is the
The Holocaust？ 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．ntähar sbksiforn ？isabilities．

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

193ђ． ersechtioned from public places （parks，pools）and all government jobs．
1933 April：Boycott of Jewish 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．sDPAath Marches lowed to go to ૬qね巴ゆNazi＇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 <br> <br> Half Term 2: Tier 3 Vocabulary 

 <br> <br> 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. |



## Knowledge Goals: Materials 1 - Sweet Dispenser



## Orthographic Projection



Avoiding Design Fixation

## SCAMPER <br> 

S

```
substitute
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Replace a think or concept with something else
A
combine
Unit? What? Who? Ideas? Materials?

A

## ADAPT

Adjust to a new purpose. Re-shape? Tune-up?
M

## MODIFY, MAGMIFY, MINIFY



P
PUt to another use Change men were. bacaton, tumer how ouse
$E$
eliminate
Omit, get rid of, cut out, simplify, weed out.

R
rearrange, reverse


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 beendemonstrated to you
- Ensure you know where the emergency stop button is
- Do not eat or drink in the workshop
- No running


Recycle - Take an existing product that has become waste and re-process the material for use in a new product.
Reuse - 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.
Rethink - 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 |  |
| $\mathbf{1}$ | 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 <br> the environment and will be able to continue for a long period of time. |
| $\mathbf{3}$ | Plan view | the appearance of an object as seen from above |
| $\mathbf{4}$ | Dimensions | A dimension is a measurement such as length, width, or height. If you talk <br> about the dimensions of an object or place, you are referring to its size and <br> proportions |
| $\mathbf{5}$ | Adhesives | a substance used for sticking objects or materials together e.g glue |
| 6 | Mechanism | a system of parts working togetherin a machine; a piece of machinery |
| 7 | Orthographic <br> projections | Orthographic projections are working drawings in either a first or third angle <br> projection and show each side of a design without perspective, ie a 2D <br> drawing of a 3D object. They are used to show an object from every angle <br> to help manufacturers plan production. |



## 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.




Hand Tools: Files


Half round file
Square file
Round file
Flat file
Triangular flie



Different types of File tool
Manufactured boards are usually made from timber waste and adhesive. To make
them more aesthetically pleasing they are them more aesthetically pleasing they are
often veneered. They are cheap to buy. often veneered. They are cheap to buy.


## Knowledge Goals: Materials 1 - Passive Amplifier

|  |  | Half Term 1: Tier 3 Vocabulary |
| :---: | :--- | :--- |
| \# | Key word | Definition |
| $\mathbf{1}$ | 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 <br> the material |
| $\mathbf{3}$ | 2-point <br> perspective | This shows an object from the side with two vanishing points. It gives the <br> mostrealistic ciew of a product as it shows the item edge on, as we would <br> see it. It is often used to produce realistic drawings of an object. |
| $\mathbf{4}$ | Half-round file | a file made flat on one side and convex on the other for filing curves |
| $\mathbf{5}$ | Round file | A file that has a round section, this is used for It is used for rubbing or <br> 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 <br> shape |
| 7 | Coping saw | a saw with a very narrow blade stretched across a D-shaped frame, used <br> for cutting curves in wood. |


|  | Notes: |
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## Knowledge Goals: Maths



## Knowledge Goals: Maths

## 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 |  |
| area of a trapezzum area of a trapezium $\frac{(a+b) \times h}{2}$ <br> Why? | - Two congruent trapezums moke a parallelogram <br> - New length $(a+b) \times$ height <br> - Divide by 2 to find area of one |  | area of a circle $\pi \times$ radius $^{2}$ <br> suitably - to significant figures or mal solution that will go on forever! |

I Compound shapes incuuding circles

arc lengths + Straight lengths $=$ total perimeter
$=64 \pi+150+150$
$=(300+64 \pi) \mathrm{m}$
$O R=5011 \mathrm{~m}$
Still remember to spit up the compound shape into smaller more manageable individual shapes first

## Knowledge Goals: Maths

|  |  | Half Term 1: Tier 3 Vocabulary |
| :--- | :--- | :--- |
| $\#$ | Key word |  |
| 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 <br> 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 <br> range. |
| 10 | Discrete | quantitative or qualitative data that only takes certain values. |
| 11 | Frequency | the number of times a particular data value occurs. |



## Knowledge Goals: Maths

|  |  | 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 | $\mathrm{Pi}(\boldsymbol{\pi}):$ | The ratio of a circle's circumference to its diameter. |
| 4 | Perpendicular: | At an angle of $90^{\circ}$ to a given surface |
| 5 | Formula | A mathematical relationship/ rule given in symbols. E.g. b x $\mathrm{h}=$ <br> area of rectangle |



Mental Health in
children in the Children in the UK THE ALARMING FACTS


and
Winn



## Knowledge Goals: PDev

TYPES OF SELF-CARE THAT EVERYONE SHOULD BE AWARE OF


## Equality, Diversity and Inclusion

It is about you



In 2019 there was a
10\% drop in new HIV since 2018 and a
stansmissions
 342ersen

|  |  |
| :---: | :---: |
|  |  |

4.139
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 <br> 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 <br> 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 <br> biggest impact in Africa. |
| 4 | Right to education | Right to education - one of the 30 Human Rights to which we are all <br> entitled. |
| 5 | Interpersonal skills | The skills you use to successfully communicate and work with other <br> employees, such as your listening skills, your personal attitude and how <br> you speak to others. |
| 6 | Prejudice | judging someone based onideas you already have about someone with <br> certain characteristics. |
| 7 | Discrimination | when prejudices are acted upon resulting in the unfair treatment of <br> someone |
| 9 | Growth Mindset | The idea that your mind will not always be the same and can be shaped <br> to achieve what you would like it to, through hard work, dedication and <br> resilience. |
| Mental health | like physical health, a measure of how well a person is, just in their mind <br> instead of their body |  |
| 10 | Stress | a state of mental or emotional strain resulting from difficult or demanding <br> circumstances. |



## Knowledge Goals: PE

## Badminton

Serving - I can perform the backhand and forehand serve with accuracy, landing the shuttle in the opponents' service box.
$\square$ 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
$\square$ 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.


## ENGLAND <br> HOCKEY

## Hockey

Ball Control - I can use reverse stick at the appropriate times to control the ball.
$\square$ Passing - I can demonstrate passes at increasing variety, speed and accuracy. On reception I rotate the stick forward o ensure the ball is trapped and available.
$\square$ 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.

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.
$\square$ 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.
$\square$ 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.
$\square$ Attacking skills - I am able to re-offer under pressure from a defender to create space to receive the ball.
$\square$ Defending skills - I am able to cleanly intercept a ball with two hands in a small game situation
$\square$ Game Situations - I am able to demonstrate a basic set play in a game situation with little or no pressure.

## Gymnastics

$\square$ Floor - I can perform a paired sequence, performing advanced movements showing consistently high levels of control and tension.
$\square$ Jumps - I can successfully incorporate a variety of jumps to change the level of a sequence
$\square$ 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.


## Rugby

England
Rugby
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 <br> (Tomahawk) | Hit on your reverse side, can be a pass or a shot. <br> Keeps the speed of play up. |
| 2 | Anticipation | The ability to quickly and accurately predict the <br> outcome of an opponent's action before that action is <br> completed. |
| 3 | Disguise | Ability to deceive the opponent with fake movements <br> or passes. |
| 4 | Line Breaks | An attacking player gets through the opponent's <br> defensive line while in possession of the ball. |



## 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 $\times$ specific heat capacity $\times$ temperature change

- The specific heat capacity of a material is the energy required to raise one kilogram (kg) of the material by one degree Cels ius ( ${ }^{\circ} \mathrm{C}$ ) 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 $\times$ specific latent heat

- Specific latent heat is the amount of energy required to change the state of 1 kilogram $(\mathrm{kg})$ of a material without changing ts 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 $10^{\circ} \mathrm{C}$ ?
energy $=$ mass $\times$ SHC $\times$ temperature change

$$
\begin{aligned}
& =3 \times 385 \times 10 \\
& =11550 \mathrm{~J}
\end{aligned}
$$

How hot does a 3.5 kg brick get if it's heated from $20^{\circ} \mathrm{C}$ by 400 kJ ?
$400 \mathrm{~kJ}=400000 \mathrm{~J}$
energy $=$ mass $\times$ SHC $\times$ temperature change
$400000=3.5 \times 840 \times$ temperature change
temperature change $=\frac{400000}{3.5 \times 840}=136^{\circ} \mathrm{C}$
final temperature $=20+136=\underline{156^{\circ} \mathrm{C}}$

| Material | Specific heat capacity $\left(\mathbf{J} / \mathbf{k g}{ }^{\circ} \mathbf{C}\right)$ |
| :--- | :--- |
| Brick | 840 |
| Copper | 385 |
| Lead | 129 |

Calculating energy for a change of state
How much energy is needed to melt 500 grams $(\mathrm{g})$ of water at $0^{\circ} \mathrm{C}$ ?

```
500 g = 0.500 kg
334 kJ/kg = 334000 J/kg
```

$$
\begin{aligned}
\text { energy } & =\text { mass } \times \text { SLH } \\
& =0.500 \times 334000 \\
& =167000 \mathrm{~J}
\end{aligned}
$$

| Substance | Specific latent heat of fusion <br> $(\mathbf{k J} / \mathbf{k g})$ | Specific latent heat of <br> vaporisation $\mathbf{( k J} / \mathbf{k g})$ |
| :--- | :--- | :--- |
| 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 $1^{\circ} \mathrm{C}$ 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:

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## Knowledge Goals: Year 9 Judaism

Judaism is one of the world's major religions. It is the world's 10th largestreligion, 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.

## 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 ceremonyis usually held on the first Shabbat (Jewish day of rest) after their birthday. In a bar mitzvah ceremony, a boy mustread 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, Is aac, 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 oflights.' People light candles,
mage of the Great Synagogue of Florence, in taly, Europe.


## Answers to Important Questions



## How many different types of dews are there?

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

## -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

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.
-There are many different branches of Judaism.
Some Jews still follow all of Judaism's original laws and custom

- these are called Orthodox Jews
- these are called Orthodox Jews.

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 dens 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. Jens 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 congregation meets for religious worship and instruction |
| 3 | Passover | the major Jewish spring festival which commemorates the liberation 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 initiation ceremony of a Jewish boy who has reached the age of 13 and is regarded as ready to observe religious precepts and eligible to take part in public worship. |
| 6 | Bat Mitzvah | a religious initiation ceremony for a Jewish girl aged twelve years and one day, regarded as the age of religious maturity. |
| 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 |




## Knowledge Goals: Music - Britpop

## Knowledge Goals: Music - Britpop

|  |  | Half Term 3: Tier 3 Vocabulary |
| :---: | :---: | :--- |
| \# | Key word |  |
| 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 <br> 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 <br> 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

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

## Knowledge Goals: Spanish

| ¿Te interesa(n) ...? | Are you interested in...? | la tecnologia | technology | ${ }^{\text {¿Cómo vas al insti? }}$ | How do you get to school? |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| el arte dramático el dibuio | drama | los idiomas | languoges | Voy al insti... | I go to school.. | Las clases empiezan a las... | Lessons start at... |
| el español | anish | las matematicas | maths | en bici | by bike | Tenemos... clases | We have.. lessons |
| el ingles | English | las ciencias | science | en autobùs | by bus | al día | perday |
| la biologia | ${ }_{\text {Premegy }}^{\text {biology }}$ | la asignatura | subject | en coche | bycar | por la mañana | in the morning |
| la educación fisica la física | PE physics | ¿Qué opinas de...? me encanta(n) | What do you think of ...? <br> llove | en metro <br> en taxi | by underground by toxi | por ta tarde | in the oftemoon |
| la geografia | geography | me chifla (n) | Hove | entren | bytrain | el recreo |  |
| la historia la informática | history ITT | me interesa(n) <br> me gusta(n) | I'm interested in 1 like | Salgo de casa a las... | Heave home ot... | la hora de comer | funch |
| la lengua la química la religión | language chemistry | no me gusta(n) odio prefiero | Idon't like <br> I hate <br> iprefer | $\begin{aligned} & \text { ¿Cuales son las normas } \\ & \text { de tu insti? } \end{aligned}$ | What are the rules in your school? |  |  |
|  |  |  |  | Esta prohibido... | It is forbidden.. | estoy de acuerdo | I agree |
| ${ }^{2}$ Cómo son tus profes? Mi profe (de inglés) es... joven viejo/a severo/a tolerante impaciente paciente interesante | What are your teachers like? My English teacher is... <br> young <br> old <br> strikt <br> easy-going <br> impotient <br> potient <br> interesting | aburrido/a <br> gracioso/a <br> serio/a <br> simpático/a <br> antipático/a <br> más divertido/a que <br> menos creativo/a que <br> $\tan$ interesante como | boring <br> funny serious nice / friendly unfriendly more fun than less creative than as interesting as | No se debe comer chicle usar el móvil en clase llevar uniforme ser agresivo o grosero correr en los pasillos llevar piercings ser puntual | You /Onemust not. <br> to chew chewing gum <br> to use your phone in lessons to wear a uniform <br> to be aggressive or rude to run in the corridors to have visible piercings to be on time | En mi opinión, .. <br> Pienso que / Creo que... <br> es justo <br> es injusto <br> no es justo <br> ¡Què va! <br> Las normas son... <br> buenas / malas | In my opinión, ... <br> t think that... <br> it's fair <br> it's unfair <br> it's not fair <br> Noway! <br> The rules ore... <br> good/bod |
| ¿Qué llevas en el insti? (No) llevo... | What do you wear at school? I (don't) wear... | tojo | red | el dia escolar | the schooiday | demasiado severas | too strict |
| (No) lievamos... | We (don't) wear. | morado / violeta | purple | ¿Hay problemas en tu insti? | Are there problems in your school? |  |  |
| Tengo que llevar... | Theve to wear... | naranja | arange | Un problema es... | One problem in my school is... | Hay (algunos) alumnos que... | There ere (some) pupils who... |
| Tenemos que llevar.... un jersey (de punto) | We have to weor... <br> $a$ (knitted) sweater | ${ }_{\text {rosal }}^{\text {rosal }}$ | pink | el estrés de los exámenes el acoso escolar | exam stress <br> bullying | intimidan | intimidote |
| un vestido | $a$ dress | verde | green | la presios del grupo | peerinressure | sienten pánico | feel ponic |
| una camisa | $a$ shirt | gris | grey | Estoy estresado/a. | 1 am stressed out. | hacen novillos | skip lessons |
| una camiseta una chaqueta (a rayas) |  | masron Oscuro /claro | ${ }_{\text {dark }}^{\text {brown }}$ /ight | Tengo mieda de... suspender mis pruebas. | I am scared of... <br> fail(ing) my assessments. | quieren ser parte de la pandilla | want to be part of the gang |
| una chaqueta de punto una corbata | a cordigon <br> a tie | a rayas/a cuadros bonito / feo | striped/checked pretty/ugiy | aprobar mis exàmenes | pass my exams | son una mala influencia | are a bod influence |
| una falda | $a$ skirt | cómodo / incómodo | comfortable / uncomfortable | ¿Qué vas a hacer? | What are you going to do? |  |  |
| unos pantalones unos calcetines | trousers | leregante | smart | Voy a... | Im going to... | ir a pie | walk |
| unos zapatos | shoes | práctico | practical | Vamos a... | We're going to... | llevar ropa de calle | wear (my/yourfour) own clothes |
| unos vaqueros unas medias | $\begin{aligned} & \text { jeons } \\ & \text { fights } \end{aligned}$ | El uniforme... mejora la disciplina | Uniform... improves discioline | participar en un intercambio | take part in an exchan toke partith my class travel with | ir ir comerursion | goon atrip |
| amarillo | how | limita la individualidad | timits individuality | conocer | meet/get to know | hacer turismo | see the sights |
| blanco | white <br> black | Las diferencias económicas no son tan obvias. | The economic differences are not as obvious | visitar llegar | visit | hacer una visita guiad ver los edificios | do a guided tour see the buildings |
| ¿Cómo es tu insti? En mi ansti hay . | What is your school tike? | amplio(s) |  | asistir a clases | attend lessons | fácil/guay | $\begin{aligned} \text { Ps ging to } \\ \text { ess } / \text { cool } \end{aligned}$ |
| Mi insti tiene... | My school has... | pequeño(s) | small |  |  | hice / hicimos... | Idid/we did... |
| un salón de actos | a hall | feo(s) | ugily | practico el judo | Ido/ have been doing judo | una prueba | atest/exam |
| un campo de fútbol | a footboll pitch | lo bueno / malo es que... | the good/bod thing is that... | canto en el coro | I sing / have been singing in the choir | gané/ ganamos... | I won/we won... |
| un patio | aplayground | lo mejor / peor es que... | the best/ worst thing is thot... | voy al | 1 go / have been going to | un trofeo | a trophy |
| una piscina |  | nada | nothing/onything | club de (ajecrez) | (chess) club | un premio | aprize |
| una biblioteca | $a$ alibrary | tampoco | not either | soy miembro del... club de teatro | ramm hove beena member of the... drama ciub | ${ }_{\text {F }}$ toque un solo | It wasa a suckess! |
| una pista de tenis unos laboratorios | a ternis court some laboratories | En miescuela primaria... | in my primary school. there was/vere (not any)... | club de periodismo | reporters club | este trimestre | this term |
| muchas aulas | lots of classrooms | xámenes | exams | club de eectores | ${ }_{\text {reading }}{ }_{\text {photography }}$ club | el proximo continuar con... | I'm going to continue with. |
| Mi instituto / colegio es... mixto | My school is... mixed | deberes <br> instalaciones (deportivas) | omework | cesde hace...años | for... years | voy a ir al club de... | İm going to go to...club |
| femenino / masculino püblico / privado | girls/all bays | actividades extraescolares | tra-curicular activities | el trimestre pasado.. | last term... | Los clubs extraescolares... son divertidos/geniales/ | Extra-curricular clubs... <br> are fun/great/interesting |
| Eledificoio es... | The building is. | la educacion primaria | pre-sthooteduction | n marató | maratho | interesantes |  |
| Los edificios son... | The buildings are... | la educación secundaria | secondary education | un torneo | a toumamen | Te ayudan a... | They help you to |
| nuevo(s) |  | el bachillerato | A levels | un concierto un campeonato | a concert a championship | aprender cosas interesantes hacer nuevos amigos | learn interesting things make new friends |
| moderno(s) | modern | el instituto | secondary school ${ }^{6}$ | un concurso | acompetition |  |  |

## Knowledge Goals: Spanish

## Half Term 1: Tier 3 Vocabulary

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

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## Frayer Model Template



## Frayer Model Template



## Frayer Model Template



## Frayer Model Template



