

## Year 7 Learning Journal

## Learning Cycle 1

Student Name:\_





## Summarise

## Test Yourself

Summarise your class notes, handouts and wider reading to condense and transform them as you go along (saves time and stress closer to exams).

**Organise your notes** and revision using **PLCs** (or Exam Specifications) and create **Revision** Timetables, to focus time and effort **on** weaknesses.

Use active recall and **spaced** repetition to **memorise** the information.

Test Yourself using low stakes and high stakes questions to check you can apply knowledge and understanding.

10%

30%

20%



# How to Summarise using .



### Flash Cards



### How do I make one/use one?

- Break down topics/subject into different units (you can use different colour cards)
- 2. Use bullet points (to help readability)
- Doesn't always have to be question and answer use variety
- Don't cram too much on one flash card (or just use one word answers!)
- Don't keep going over flash cards you know well. The 'Leitner System' is a good way to RECALL flashcards. You can also Quiz-Quiz Trade with others.

### What is the idea?

A card with a key word or question on the front, and the definition or answer on the reverse.

### What is it useful for?

- Learning definitions/meanings
- Learning a language/translations
- Learning short case study/topic facts

#### Pros

#### Cons

Useful for revising on the go (easy to carry).

You can test yourself using the front or the back of the card.

You can buy Ready made flashcards or use online flashcards e.g. Quizlet. Simply copying questions and answers/definitions out of textbooks to make the cards, or just reading them over and over, doesn't improve your recall.

You can make them too simple (long question, one word answer.)

Doesn't help your visual memory (unless they have images).

Does not help you make links/ apply facts and detail to high tariff questions.





## How to Summarise using ...



### Intelligent Graffiti (Sketchnotes)

H t	o draw SKE	TcHNo	TES Shet	chootes ar NOT s or illustrated text. are visual guides. Follow steps to get started.
A. PICK PATTERN	2. CHOOSE SOME FRAMES	3. SELECT CONNECTORS SEPARATORS	4. PICK SOME BULLETS • • • • • Remember- Statchnotes heed test!	5. DECIDE FONTS (3 Will do:) Fort Fort FONT FONT FONT FONT FONT FONT FONT FONT

### How do I make one/use one?

- The first rule of intelligent graffiti is THERE ARE NO RULES! (The following are just suggestions)
- 2. Don't write down everything and use abbreviations.
- Your notes do not need to be linear it's up to you how they flow (they only need to make sense to you).
- 4. Vary handwriting & add emphasise to draw eye to key points.
- 5. Use connectors and containers to link and organise ideas.
- 6. Include diagrams and images to represent ideas.

### What is the idea?

Filling a page with notes and diagrams about a topic. Making connections between ideas and emphasising important information.

### What is it useful for?

- Case studies/topic overview
- Making links between different parts of a topic and emphasising the importance of information.

Pros	Cons
There are no rules (flexible	They can be time
depending on you and the	consuming to create.
topic you are studying)	
	Students do not
Your notes will be compact,	always include enough
colourful and visual so this	detail (not helpful if
makes them easier to review.	you need to remember
	a lot of detail!)
You can make connections	
between ideas within the	The notes may be so
topic.	'free' they are hard for
	you to follow again/
Converting notes into images	make sense of.
and words helps your brain	
learn as it combines visual and	

verbal memory (dual coding).

# How to Recall using ...



Leitner System (For Flash Cards)

### What is the idea?

To revisit flash cards you don't know more frequently and the ones you do know less frequently. Making your revision more efficient.



YouTube Tutorial Video Link

### How do I use this method?

- Create 3 to 5 boxes, folders or piles.
- 2. Label them as shown in the diagram below.
- 3. Put all your flashcards (or a set number) in Box 1
- On day 1 try to recall the information on the flashcards in Box 1
- 5. If you get a flashcard correct move it into Box 2
- If you get a flashcard wrong it stays in Box 1
- On day 2 go through Box 1 and Box 2.
- Every time you get a card correct it moves forward one box, every time you get it incorrect it goes all the way back to Box 1!
- 9. Keep visiting the boxes at the time indicated on the label.
- You can add more cards to Box 1 at any time.



# How to Recall using ...



### Blurting





pumper that has been and to etds Ball hall the sharing approvering live well, pulse provedy, and take seen objects i there to be that. In me same my pla the full . Taing parts are starting to were less where their consumity for catma aline I a app intracted. A Hanas wine with her data because he wan't h withday. Keying up With the Kardaskan drenner it a all anyor wooding travers along it on the statement and the school , it propped may be Maliky shows an allowing the deverted of our much in The with 13 and manal sex ancourses me me - good family can'ter with the the free insecueties and att if them give been the one was in they also fill the put

In conclusion match to some the second and and the second and the

### What is the idea?

To write everything you remember on the topic you have been revising. It doesn't matter what form this takes (e.g. notes/mind map etc). Check against your revision notes to see what you got right/wrong and make corrections in a different colour. Repeat.



YouTube Tutorial Video Link

### How do I use this method?

- 1. Revise a topic/sub-topic
- 2. When you think you know it, put your revision notes away.
- 'Blurt' what you remember onto a piece of blank/scrap paper or a mini whiteboard.
- Use any method of organizing your ideas on the paper.
- Once you have got down everything you remember, get out your notes and see what you missed/got wrong.
- 6. Make corrections in red pen.
- Focus on learning the bits you missed/got wrong next time you revise.
- 8. Repeat! Always start again from scratch and try to recall everything (don't just try and recall the bits you missed/got wrong), this will strengthen your knowledge of the whole topic.



### English and Maths Personal Learning Checklists

English The Giver	S	0	R	т
What is the narrative hook in 'The Giver'?				
How is Jonas' world presented as a utopian society?				
How is it simultaneously a dystopian society?				
Why do you think the citizens are not allowed to make their own choices?				
How does Lowry use symbolism in The Giver?				
How does Lowry create tension when the assignments are allocated?				
What challenges do societies face?				
Make predictions about what 'release' means.				
What is meant by sameness?				
What does the Receiver do?				
How does Jonas respond to the different memories he receives?				
Why does the Giver give out painful memories?				

English The Landlady and Lamb to the Slaughter	S	0	R	т
How is foreshadowing used in the story?				
How does Dahl play with stereotypes and reader's expectations about characters?				
How is the patriarchy challenged by Dahl's female protagonist?				
Who is in control in the story and how do they take control?				

Maths Sequences	Sparx Code	S	0	R	т
Describe and continue diagrammatical and numerical sequences	M241				
Predict and check the next term(s) of a sequence	M381				
Represent sequences in a table or on a graph	Q863				
Recognise linear and non-linear sequences	M981				
Find the missing numbers within a sequence (H)	Q267				
Maths Algebraic Notation	Sparx Code	S	ο	R	т
Use one- and two- step function machines with numbers, diagrams and letters	Q878				
Substitute values into one- and two-step expressions	Q184, Q344				
Generate sequences given an algebraic rule	M166				
Represent one- and two-step functions graphically					

### Maths Personal Learning Checklists

laths quality and Equivalence	Sparx Code	S	0	R	т	Maths Fractions, decimals and	Sparx	S	0	
nderstand and use fact families (numerical and	M952, M409					percentages	Code			
olve one-step linear equations using inverse perations	M707					Represent fractions as diagrams and on a number line	M158			
Inderstand the meaning of like and unlike terms	M830					Identify equivalent fractions	M410			
Inderstand the meaning of equivalence										
Simplify algebraic expressions by collecting like	M795,					Understand fractions as decimals	M958			
Maths	<b>Sparx</b>	S	0	R	т	Understand the meaning of percentages using a hundred square	M476			
Place Value	Code					Convert fluently between fractions				
Recognise the place value of integers and decimals up to one billion						decimals and percentages	M264			
Write integers up to one billion in words and figures	M704					Use and interpret pie charts	M574			
Position integers and decimals on a number line	M522						M958,			
Round integers to powers of 10 and significant figures	M994					Explore fractions, decimals and percentages above 1 (H)	M264, M922			
Compare two numbers using =, $\neq$ , <, >, $\leq$ , $\geq$	M704									-
Order a list of numbers (integers and decimals)	M522									
Find the range and median from a list of numbers	M934, M328									
Write 10, 100, 1000 etc as powers of 10 (H)	M113									
Write integers in the form A x 10 <sup>n</sup> (H)	M719									
Write decimals in the form A x 10 <sup>n</sup> (H)	M719									

French Je me présente (Introducing myself)	S	0	R	т
Use different greetings and say my name in				
French				
Use the alphabet in French to spell my				
Use numbers 1-31, days of the week and months				
Say my age and when my birthday is				
Name classrooms items in French and use classroom language				
Understand genders and plurals in French				
Say what is and what is not in my bag				
Talk about family				
Use the full paradigm of the verb <i>avoir</i> and <i>etre</i> in French				
Talk about my pets and use basic adjectives				
Use simple opinions				
Describe people's physical appearance hair, eyes, height and build				
Describe myself and understand how to use adjectives				
Write 40 to 50 words in French about myself				
Use your vocab booklet to sort your learning				

French Mon temps libre (My Free Time)	S	0	R	т
Talk about Halloween in France				
Use opinions and infinitive verbs to say what I like to do				
Use adjectives to justify my opinions				
Use present tense verbs to say what I do in my free time				
Use the present tense of -er, -ir and -re verbs in the full paradigm				
Use a range of frequency adverbs				
Recognise and use weather phrases				
Say what you do in different weather				
Use jouer/faire to talk about different sports				
Complete a reading and listening assessment on my hobbies				
Write 40 to 50 words in French about myself				
Find out about Christmas celebrations in French				
Use your vocab booklet to sort your learning				

### Geography & History Personal Learning Checklists

Geography How on Earth did we get here?	S	0	R	т
Label a blank map of the world with the 7 continents and 5 oceans.				
Outline the Big Bang theory.				
State arguments for and against the Big Bang Theory				
Describe the key stages of the rock cycle using keywords.				
Outline the main changes in evolution during the different eras.				
Describe the 3 types of geography that are studied.				
Explain why it is important to study our planet in different ways.				
What happens when the land meets the sea?	S	0	R	Т
Identify human and physical features and locate them on a map.				
State the different physical features along Newquay's coastline.				
Describe how constructive and destructive waves affect the coast.				
Explain how headlands and bays are formed using a range of keywords.				
Describe the formation of a stump in chronological order.				
Apply keywords and annotations to diagrams to show my understanding of longshore drift.				
Outline & explain features of hard and soft engineering.				
Assess the effectiveness of different types of coastal engineering in different locations.				
State reasons why the coastline of Newquay has such economic and environmental importance.				

History Roman Britain	S	0	R	т
What is History: key concepts for Historians				
Who was in charge in Roman Britain?				
How has Mary Beard used <b>evidence</b> to reach conclusions about the <b>lives of people in Pompeii</b> ?				
What have the Romans ever done for us and who is in charge?				
Tacitus and Boudicca: Goodie or Baddie?				
Who settled after the Romans?				
Walsham: How pleasant or harsh was life in a medieval village?				
What shall we do with Cedric?				
The connected world of Islam before 1000: what drove Baghdad's thirst for knowledge				
The French village of Conques before 1000 – The light of one saint's story on the Western Christian World				

### Computing Personal Learning Checklists

Computing Online Safety	S	0	R	т
I can use basic file management techniques to create folders, save, copy, move, rename and delete files and folders				
I can keep my files in well organised and in appropriately named folders				
I know how to access my school files at home				
Understand why learning about computers is so important in the modern world				
I can tell the difference between a Web Browser and a search engine				
I understand how a search engine finds information				
I can use a search engine to find information				
I can tell the difference between the internet and the world wide web				
I can describe how to minimize the risk of a range of online dangers				
Understand that all activity on the internet is recorded and nothing is truly deleted				
I can describe guidelines for keeping their identity secure on the Internet				
I can identify steps to see if a website is real or fake				
I can identify copyright laws				
Understand how to use other peoples' ideas/work without breaking copyright law				
I know what to do if I am being cyberbullied				
I can explain what constitutes a "strong" password for an online account				
I can describe what is meant by identity theft and how to minimize the risks of this				
I can identify a probable phishing email and deal with it appropriately				

Computing Programming	S	0	R	т
Understand what is input, storage & output in programming				
Understand that programs run in sequence				
Create a basic Scratch program				
Understand what is a variable and why they are used in programming				
Write Scratch programs using Variables				
Create programs using selection				
Understand the need for iteration				
Understand how to create programs that use iteration				
Run simple Python programs				
Use comments to document programs				
Understand how to store inputs into variables in python				
Understand how to correctly label variables in Python				
Use concatenation to join text in Python				
Carry out a number of programming tasks to practice programming simple arithmetic.				
Create a program that stores and displays school results				
Create a programs in Python that use selection statements				

REP Judaism	S	0	R	т
State the seven dimensions of religion				
Give an example of each of the seven dimensions of religion				
State the six main divine characteristics of God				
Explain what each of the six main divine characteristics of God are				
Describe who Abraham was				
Describe the biblical story of the Binding of Isaac				
Explain what the 'Covenant' is				
Describe the biblical story of Joseph				
Explain the concept of faith in God				
Describe the story of Moses				
Give three examples of the Plagues of Egypt				
Describe the events of Passover				
Explain the importance of the Sedar plate				
Describe what the Torah is				
Identify the four key features of a Synagogue				
Describe what happens on Shabbat				
Explain the importance of Yom Kippur to Jews				
Explain the importance of Rosh Hashanah to Jews				

Art Natural Form	Evidenced	Refined
How to analyse artists' styles to influence my own work.		
I can use proportion in drawing		
How to look carefully at shape when drawing		
I am able to use a variety of tones when shading		
I am able to develop mark making techniques to show texture and detail		
I am able to draw from primary and secondary sources		
I am able to use blend and mix colours using colour pencil		

### Music, Drama & DT Personal Learning Checklists

Music	S	0	R	т
Sing and play as part of an ensemble group using appropriate sounds, timbres, voices and pitch.				
Perform a solo line within a whole class performance.				
Understand the musical elements (MAD TSHIRTS) and their definitions and be able to identify them in the music that I listen to				
Perform and/or create a range of different rhythms through call and response and improvisation.				
Recognise how structure works within a pop song using key vocabulary to label the different sections.				
Develop you understanding of what a chord is and how to play a chord on multiple instruments				
Strum a chord pattern on the ukulele, developing your ability to transition between chords.				

Drama		0	R	т
Create a character with exaggerated body language and vocal skills				
Understand the stereotypes of three key characters				
Research real heroes in society and perform their narrative in groups				
Learn about Irena Sendler				
Question what makes someone a real hero				

DT		0	R	т
Food and Nutrition				
I understand how to ensure a hygienic and safe kitchen				
I can explain the importance of knife safety and knife skills to prevent injury				
I can identify the five different sections of the eat well guide				
l understand the importance of a healthy diet				
I can name and describe a number of common pieces of equipment in the kitchen				
I can describe the difference between the bridge hold and claw grip				
DT Fan Project		0	R	т
I can recall and define the tier three vocabulary in this unit				
I can name tools and equipment				
I can use hand tools and power tools with precision				
I can join materials using an appropriate method				
I can evaluate the finish of my work and link this to how precisely I have used the tools				

### English Knowledge Organiser – Tension in Short Stories

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#### Patriarchy

The twist in 'Lamb to the Slaughter' <u>subverts</u> the **societal expectations** of a <u>patriarchal society</u>.



	5	Short	Stories
in		Improve your understanding of the short story genre by reading other tales from the likes of Anthony Horowitz.	TO CHILLING TALES FROM THE MASTER OF STORTTELLING H O R O W I T Z HOR O W I T Z

1	TIER THREE VOCABULARY	
Context The cultural, political, social or historical events that are relevant or helped to inspire a text. Can also refer to information about the writer's life.		
Dystopia	The worst possible version of the world	
Subject Terminology	Words or vocabulary that is subject specific (also referred to as Tier 3 vocabulary)	
Foreshadowing	When the reader is given a hint of something to come later in the story	
Characterisation	Methods the writer uses to show the reader information about a character (i.e. description or dialogue)	
Setting	The place that story takes place	
Utopian	The best possible version of the world	
Quote	Something that is written in the text of a story. Differ	



Foreshadowing How do writers use foreshadowing in literature and why?

Using Foreshadowing in Fiction



### English Knowledge Organiser – The Giver

Key Characters	Purpose & Summary	Key Symbols	What They Represent
Jonas	The eleven-year-old protagonist of <i>The Giver</i> . Sensitive and intelligent, with strange powers of perception that he doesn't understand, Jonas is chosen to be the new Receiver of Memory for his community when he turns twelve. <b>Jonas is</b> <b>symbolic of the importance of individuality and freedom</b> .	Birthdays	The loss of individuality
The Giver	The old man known in the community as the Receiver of Memory. The Giver has held the community's collective memory for many years and uses his wisdom to help the Committee of Elders make important decisions. <b>He is</b> <b>symbolic of the importance of memories.</b>	Sled	Jonas' journey and change
Jonas' Father	A mild-mannered, tenderhearted Nurturer who works with infants. He is very sweet with his two children. He enjoys his job and takes it very seriously, constantly trying to nurture children who will stay alive until the Ceremony of Names. <b>He</b> <b>represents conformity and the darkness it can bring.</b>	Bikes	A symbol of independence
Asher	Jonas's best friend. Asher is a fun-loving, hasty boy who usually speaks too fast, mixing up his words to the exasperation of his teachers and Jonas. He is assigned the position of Assistant Director of Recreation. <b>He represents</b> <b>childhood and playfulness.</b>	The child - Gabriel	For Jonas, the new child Gabriel is a symbol of hope and of starting over.

### English Knowledge Organiser – The Giver

1	TIER THREE VOCABULARY
Symbolism	When something, usually a physical item, is used to represent a concept or idea that is important to the story.
Flashback	When a story changes to a memory or invent in the past that might be important in some way.
Metaphor	A comparison between two things when something is said to be something else.
Simile	A comparison between two things using the words 'like' or 'as'.
Imagery	Descriptive or figurative language that helps the reader visualize the story (i.e. metaphors and similes are forms of imagery).
Methods	The things a writer does to make his or her writing very effective (i.e. metaphors, similes, and imagery are all methods that a writer might use).
Connotation	The feeling or emotion suggested by a word.
Adjective	A describing word.



Thesis Writing

Thesis writing is where we outline our argument for a Literature Essay. We use a three-pronged approach.

First sentence → What does the writer aim to achieve with the text overall?

Second sentence → How does the writer get this argument across? Which characters or moments do they use?

**Third sentence**  $\rightarrow$  Provide references from across the text and then explain WHY the writer has done this.

Writer's Aims

## In The Giver, Lowry seeks to:

5

Warn us about the controlling nature of governments. Teach us about the impossibility of a utopian society. Criticise those who abuse their power.

### Maths Knowledge Organiser – Keywords

VOCABULARY	VOCABULARY	VOCABULARY
Sequence: items or numbers put in a pre-decided order	Expression: a maths sentence with a minimum of two	Fraction: how many parts of a whole we have
Term: a single number or variable	numbers and at least one math operation (no equals sign)	Decimal: a number with a decimal point used to
Position: the place something is located	Evaluate: work out	separate ones, tenths, hundredths etc.
Rule: instructions that relate two variables	Linear: the difference between terms increases or decreases by the same value each time	<b>Percentage:</b> a proportion of a whole represented as a number between 0 and 100
Linear: the difference between terms increases or decreases by the same value each time	<b>Approximate:</b> To estimate a number, amount or total often using rounding of numbers to make them easier to	Tenth: one whole split into 10 equal parts
Non-linear: the difference between terms increases or	calculate with	Hundredth: one whole split into 100 equal parts
decreases in different amounts	Integer: a whole number that is positive or negative	<b>Sector</b> : a part of a circle between two radius (often referred to as looking like a piece of pie)
Difference: the gap between two terms	Interval: between two points or values	<b>Bocurring:</b> a docimal that repeats in a given pattern
Arithmetic: a sequence where the difference between the terms is constant	<b>Median:</b> A measure of central tendency (middle, average) found by putting all the data values in order and finding the	<b>Recurring:</b> a decimal that repeats in a given pattern
Geometric: a sequence where each term is found by	middle value of the list.	
multiplying the previous one by a fixed non zero number	<b>Negative:</b> Any number less than zero; written with a minus sign.	
<b>Function:</b> a relationship that instructs how to get from an input to an output.	<b>Place holder:</b> We use 0 as a place holder to show that there are none of a particular place in a number	
Input: the number/ symbol put into a function.	<b>Place value:</b> The value of a digit depending on its place in a	
<b>Output</b> : the number/ expression that comes out of a function.	number. In our decimal number system, each place is 10 times bigger than the place to its right	
<b>Operation:</b> a mathematical process	Range: The difference between the largest and smallest	
Inverse: the operation that undoes what was done by		
the previous operation. (The opposite operation)	<b>Significant figure:</b> A digit that gives meaning to a number. The most significant digit (figure) in an integer is the	
<b>Commutative:</b> the order of the operations do not matter.	number on the left. The most significant digit in a decimal fraction is the first non-zero number after the decimal point	
Substitute: replace one variable with a number or new variable.		

### Maths Knowledge Organiser - Sequences





### Maths Knowledge Organiser – Algebraic Notation 1



### Maths Knowledge Organiser – Algebraic Notation 2



### Maths Knowledge Organiser – Equality and Equivalence 1



### Maths Knowledge Organiser – Equality and Equivalence 2



### Maths Knowledge Organiser – Place Value



Maths Knowledge Organiser – Fractions, decimals and percentages 1



Maths Knowledge Organiser – Fractions, decimals and percentages 2



Key words	Definition
Independent variable	The variable you change in an investigation
Dependent variable	The variable you measure in an investigation
Control variable	The variable you keep the same in an investigation
Hypothesis	A prediction of what will happen in an investigation
Reliability	We use control variables to ensure a reliable experiment
Reproducible	To re-do our experiment and get similar results due to a reliable method
Mean	Doing an experiment 3 times then dividing by 3 to get an average
Fair test	An experiment where only the independent variable changes.
Anomalous result	Result that does not fit with the rest of the data.

#### 1. Designing and performing experiments



Dependent variable – I want to know if increasing water temperature increases the rate of diffusion from a tea bag. Therefore, I want to **measure** the rate of diffusion!

#### 3. Presenting Data

Dependent variable –

the thing we are

measuring overall.

reproduce.



#### Drawing conclusions from data

State the **relationship** between the independent and dependent variable, e.g., 'as the time increases the product formed increases.'

Use statistics to support your answer. 'For example, at 10 minutes there was 50g of product, compared to 160g at 20 minutes'

Refer to the original hypothesis – does the data support this?

When **evaluating** think of the **positives** and **negatives** of the method (the validity - did they use enough controls? And of the results – were results **reliable**, **accurate**, **reproducible**?) and come to an overall **conclusion**.



1	TIER THREE VOCABULARY	
States of matter	Shows how solids, liquids and gases change state	
Boiling	When a liquid turns into a gas	
Melting	When a solid turns into a liquid	
Freezing	When a liquid turns into a solid	
Evaporating	When a liquid turns into a gas	
Condensing	When a gas turns into a liquid	
Sublimation	When a solid turns into a gas without becoming a liquid first.	
Chromatogr aphy	Is a separation technique used to separate mixtures of soluble substances	
Filtration	Is used to separate an insoluble solid from a pure liquid or a solution.	
Distillation	Is a separation technique used to separate a solvent from a mixture.	
Pure substance	A substance made of only one type of particle	
Impure substance	A substance made from more than one element or compound (Mixture)	



#### How can I use the Periodic Table?



Subatomic Particle	Mass	Charge
Proton	1	+1
Neutron	1	0
Electron	Negligible	-1





#### The particle model



The particles in solids are very close together, therefore they cannot usually be compressed or squashed. The particles in solids are arranged in a regular way. The particles in solids move only by vibrating about a fixed position. This gives solids a fixed shape and means that they cannot flow like liquids.



The particles in liquids are arranged in a random way, and are close together, touching many of their neighbours. There are some gaps, but liquids cannot usually be compressed or squashed. The particles of a liquid have enough energy to break free of some of the forces of attraction between the particles. So particles in liquids can move around and can move over each other, allowing liquids to flow and be poured.



The particles in gases are widely spaced and randomly arranged, meaning they can be easily compressed or squashed. The particles in a gas have enough energy to overcome the forces of attraction between the particles, so are free to move in any direction. They move quickly in straight lines, colliding with each other and the walls of their container.

All information resourced from BBC Bitesize



Filtration is the process of separating solids from liquids using .

lid and liquid

Filtration

5

The process can be used to separate an insoluble solid, for example stone or sand grains from a liquid. The liquid could be a pure liquid, for example water, or it could be a , for example, salty water.

When a mixture of sand and water is filtered: •the sand stays behind in the filter paper, it becomes the residue

• the water passes through the filter paper, it becomes the filtrate

### 4 Evaporation Solution Gauze Heat-proof mat

Evaporation can be used as a technique to separate the solid from the in a . The solvent is the liquid, and when the solution is heated, the solvent evaporates. The solute is left behind as crystals.

In a lab the heat is usually supplied by a Bunsen burner, and the solution is heated in an evaporating basin.

#### 6 Further reading and websites

The particle model of matter: https://www.bbc.co.uk/bitesiz e/topics/z9r4jxs Pure and impure substances: https://www.bbc.co.uk/bitesiz e/topics/zych6g8

1	TIER THREE VOCABULARY
Microscope	A scientific instrument that is used to see tiny objects, such as cells, magnified several hundred times or more
Specialised cells	Cells which have a particular adaptation to allow them to complete a specific function
Offspring	An animals young
Sexual fertilisation	A process in which new organisms are created by combining the genetic information from two individuals of different sexes
DNA	The store of genetic information for all living things, passed from parents to offspring
Ova	Female gametes
Sperm	Male gametes
Hormones	Chemical messages produced by glands. They travel in the blood to a target organ where they take effect
Uterus	The part of the female reproductive system where a fertilised egg cell develops into an embryo and then a fetus. Also called the womb.
Oviduct	Tubes in the female reproductive system which link the two ovaries to the uterus. Also called the fallopian tubes.

#### **Relative Sizes and Detection Devices**



### Science Knowledge Organiser – Life Science

4

Sperm are the male sex cell. They are made in the testes after puberty. They join with

an egg cell during fertilisation to form an embryo which can then develop into a new life. The following features make them well suited to this function:

Part of the tip of the head of the sperm, called the acrosome, releases enzymes to

Root hair cells

Sperm are produced in large numbers to increase the chance of fertilisatio

es them towards an eaa cell

Many mitochondria release energy for movement

digest the egg membrane to allow fertilisation to take place.

The haploid nucleus contains the genetic material for fertilisation



#### **Plant cells** Cell wall Nucleus Cytoplasm Cell membrane Vacuole Mitochondria Chloroplasts Plant cells often have a regular shape. They have the same cell components as animal cells: a nucleus, cell membrane, cytoplasm and mitochondria. They also have these extra three as well: • Cell wall: a tough outer layer of the cell, which contains cellulose to provide strength and support to the plant. • Vacuole: a space inside the cytoplasm that contains a watery liquid called cell sap. It keeps the cell firm. • Chloroplasts: structures found in the cells of green parts of plants only (leaves and stems) which contain a green pigment called chlorophyll in which photosynthesis occurs. Red blood cells Specialised cells Red blood cells carry oxygen around the body, which is needed for respiration. They are well suited to this function because Tall They contain haemoglobin, which carries oxygen molecules They don't have a nucleus, allowing more space to carry oxygen. They are a flat disc shape with dips on both sides (biconcave). This gives them a large surface area, and the best chance of absorbing as much oxygen as they can in the Sperm cells

#### Puberty and adolescence

#### Changes during puberty

The menstrual cycle begins at puberty. It is an approximately 28 day cycle that prepares for pregnancy. The cycle stops during pregnancy.

Most females begin puberty between the ages of eight and 14. Puberty takes about four years during which the following physical changes occur:

- underarm hair grows
- pubic hair grows
- · body smell gets stronger
- hips widen

5

- breasts develop
- ovaries release ova during the menstrual cycle



#### Further reading



6

What are cells? Animal and plant cells - KS3 Biology - BBC Bitesize - BBC Bitesize

Water Mineral



Specialised animal cells -Living organisms - KS3 Biology - BBC Bitesize - BBC Bitesize Human reproduction -Reproduction - KS3 Biology -BBC Bitesize - BBC Bitesize

Roots hold plants in place as they grow and also absorb water and minerals from the soil. Roots divide into smaller and smaller branches as they travel into the soil. The outside surface of roots are covered with root hair cells, which have tiny 'hairs' which poke into the soil. This massively increases the surface area for the root hair cell to absorb more water and minerals

Idea it is	s explaining	Money as a model	How the model links to energy
We store our money in Energy's ability to be stored pockets, purses and bank accounts.		Energy is stored. For example, energy is stored in the kinetic energy store in objects that move.	
When we pay for an item in a shop we are transferring our money from one store (pocket, purse or wallet) to another (the till).		Energy can be transferred between different stores.	
The unit of energy		In the United Kingdom, money is measured in pounds sterling (£).	Energy is measured in <i>joules</i> (J).
START Energy in	heating Energy transferred by conduction	END START Energy in Energy in	Radiation Energy transferred by infrared radiation













#### **Kinetic energy store**

The runner has more energy in their kinetic energy store when they are running faster. The amount of energy in the kinetic energy store depends on the speed of the object.

#### Gravitational potential energy store

The box has more energy in its gravitational potential energy store when it is placed on a higher shelf. The amount of energy in the gravitational potential energy store depends on the height of the object.

#### **Chemical energy**

Batteries, foods and fuels store energy in their chemical energy stores. The candle wax in the picture is a type of fuel. Transfer of energy from the chemical

energy store occurs due to chemical reactions.

### Geography Knowledge Organiser – How on Earth did we get here?

3

Air pollution

1	TIER THREE VOCABULARY	
The Big Bang	The explosion of energy that led to the formation of the Universe.	
Evolution	The process by which new species of plants and animals develop.	
Mass extinction	When a large number of species die off; for example, because an ice age arrives.	
Geological Time	How time is measured since Earth began it is measured in eons, eras and periods.	
Physical Geography	Natural features of the Earth such as waterfalls, volcanoes, oceans and mountains.	
Human Geography	How people interact with the Earth, for example how towns and cities are formed or how countries trade with one another.	
Environmental Geography	The study of how people impact the Earth. For example, plastic pollution, renewable energy or waste recycling.	
Continent	A large piece of land, the Earth has 7 of them	
Ocean	A very large area of sea, there are 5 in the world.	
Weathering	The breaking down of rock caused by physical, chemical or biological processes.	
Sedimentary Rock	Formed from sediment that has settled on the ocean bed and been compressed.	
Metamorphic Rock	Forms when rock is changes through the action of heat or pressure, without melting,	
Igneous Rock	Forms when melted rock from volcanoes hardens.	



Types of Geography

4	Evolution of org	anisms on Earth	
ERA	Evolution of flora	Evolution of fauna	
Cenozoic 66MYA	Pines – Mosses – Oak – Grasses	Giant whales – Great apes – Horses- Elephants - HOMOSAPIENS	
Mesozoic 250 MYA	Trees with cones – Birds – Dinosaurs – Tu Flowering plants First mammals		
Paleozoic 540 MYA	Algae – Land plants - Trilobites – Fish - Repti land – Giant insects – A with shells		
Pre- Cambrian 4.5 BYA	Single cells	Kim berella — Jellyfish — Charnia	



### Geography Knowledge Organiser – What happens when the land meets the sea?

1	TIER THREE VOCABULARY	
Erosion	The wearing away of rock, soil or stones by waves.	
Hydraulic Action	When waves force air into cracks in the rock which weakens it and breaks it off, wearing it away over time.	
Abrasion	The wearing away of cliffs by the sediment in the waves.	
Longshore Drift	How sand and other material is carried along the shore (transported) by the waves.	
Deposition	When waves drop material/sediment as they have little energy.	
Transportation	The movement of beach sediment by the waves (longshore drift).	
Sediment	Small bits of rock and sand in the water.	
Hard (resistant) rock	Rock that has a strong structure and takes a long time to erode. These are often igneous and metamorphic rock.	
Soft (less resistant) rock	Weaker rock that is eroded easily by the sea due to its structure. These are usually sedimentary rocks.	
Hard engineering	Using man-made hard materials to create a physical barrier between the land and sea, like sea walls and gabions.	
Soft engineering	Using natural materials to try and protect the coast, like replanting grasses or moving beach material.	
Social impact	Something that will affect people and communities.	
Economic impact	Something that will affect the income (money) in an area.	
Environmental impact	Something that will affect the natural world.	

2 Types of wave		4 Hard and soft engineering strategies		
Constructive Waves	<b>Constructive Wave:</b> A low frequency wave with little energy, it as a strong swash which deposits sediment to		Hard engineering	Soft engineering
Constructive Wwws Weak backwash Flat beach Frequent in Summer Low Frequency	build up the beach.	Named examples	Sea wall Groyne Rock armour	Offshor e Reef Beach Replenishmen t Replanting du nes
<b>Destructive wave:</b> A high frequency wave that has lots of energy, with a strong backwash, which erodes the beach.	Destructive Waves Strong backweeth Destructive Waves Weak swash Steep beach Frequent in Winter High Frequency	Advantages Disadvantag es	<ul> <li>Long term</li> <li>Reflects or dissipates wave energy</li> <li>Physical barrier between land and the sea</li> <li>Expensive</li> <li>Eye sore</li> <li>Loss of habitat</li> </ul>	<ul> <li>Less impact on environment</li> <li>Visually appealing</li> <li>Creates good social space at beach</li> <li>Can be short term</li> <li>Relies on</li> </ul>
3 Formation	5. The arch is 7. The stack eroded and is eroded collapses forming a stump		and species during construction	community interaction • Maintenance costs
Headland		4	4 and 6 figure grid	references
2. The crack grows into a cave by hydraulic action and abrasion 4. The ca through t forming a	ave breaks the headland a natural arch	Rule: alc corridor up the s No com bracket	and tairs. mas or s.	
		4 figure = 2 6 figure = 2 522	25 52 Easting 252 527 & 257	is (left to right) ->

### History Knowledge Organiser - The Romans

1	TIER THREE VOCABULARY
Province	A territory outside Italy that was controlled and governed by the Roman Empire. Britain was a Roman province known as Britannia.
Legion	The principal unit of the Roman army, typically consisting of about 5,000–6,000 soldiers.
Villa	A large country house or estate, often luxurious and self- sufficient, owned by wealthy Romans or Romanized Britons.
Bathhouse	Public baths where Romans would bathe, socialize, and relax.
Aqueduct	A structure built to convey water from a source to a distribution point, used in some Roman towns in Britain.
Boudica	The queen of the Iceni tribe who led a major uprising against Roman rule in 60-61 CE.
lœni	A tribe in eastern Britain that famously rebelled against Roman rule under Boudica.
Vindolanda	A Roman auxiliary fort south of Hadrian's Wall, known for the Vindolanda tablets, which provide insights into daily life in Roman Britain.
Hadrian's Wall	A defensive fortification in northern Britain built under the rule of Emperor Hadrian to protect against incursions from northern tribes.
Mosaic	Art form using small pieces of coloured glass, stone, or other materials to create images or patterns, often used to decorate floors and walls.
Client King	A local ruler who retained his position and autonomy by aligning himself with Rome, governing on behalf of the emperor.
Londini um	The Roman name for London, which was sacked and burned by Boudicca's army.
Prasutagus	Boudicca's husband and king of the Iceni tribe. His death and the subsequent mistreatment of his family by the Romans were catalysts for the revolt.

#### Why did the Romans come to Britain?

The Romans came to Britain for several reasons, including strategic, economic, political, and military motivations. Here are the primary reasons why the Romans decided to invade and ultimately conquer Britain:

#### 1. Economic Motives

2

- Resources and Wealth: Britain was rich in natural resources such as tin, lead, iron, silver, and gold. The fertile lands also promised agricultural wealth. Control over these resources was highly attractive to Rome.
- Trade: Britain had established trade networks and incorporating Britain into the Roman Empire allowed Rome to control and benefit from these economic activities more directly.

#### 2. Military and Strategic Considerations

- Prevention of Threats: By the time of the Roman Empire, there were concerns about potential threats from the tribes in Britain, who could ally with Gaulish tribes against Rome. Securing Britain helped to neutralize this potential threat.
- Expansion of the Empire: Conquering new territories was a way to demonstrate Roman military superiority and secure the empire's borders. Britain's conquest was also seen as a way to extend Rome's power and influence.

#### 3. Historical Precedents and Aspirations

- Julius Caesar's Expeditions: Julius Caesar had conducted expeditions to Britain in 55 and 54 BCE, which, while not resulting in permanent conquest, established a precedent for Roman interest in the island. His reports highlighted the wealth and potential of Britain, making it an attractive target for future emperors.
- Roman Imperialism: The Romans had a long tradition of expansionism. The conquest of Britain fit within the broader pattern of Roman imperialism, where new territories were sought after to showcase the might of Rome and bring more peoples under Roman control.







#### Daily Life in Pompeii

•Social Structure: Beard examines the social hierarchy of Pompeii, from the wealthy elite living in grand villas to the lower classes residing in more modest homes and apartments.

•Family and Gender Roles: The book explores the roles of men, women, and children within the family and society, highlighting the complexities of Roman social norms and relationships.

#### Boudicca

#### Boudicca as a "Goodie"

- 1. Freedom Fighter: Boudicca is often celebrated as a symbol of resistance against oppression. She led a significant uprising against the Roman Empire, which many view as a fight for the freedom and independence of her people, the Iceni, and other British tribes.
- 2. Avenger of Injustice: After the death of her husband, King Prasutagus, the Romans annexed his kingdom, flogged Boudicca, and raped her daughters. Her rebellion can be seen as a response to these personal and collective injustices.
- **3. Defender of Culture**: Boudicca's resistance is viewed as an effort to preserve the indigenous culture, traditions, and autonomy of the British tribes against Romanization and foreign rule.

#### Boudicca as a "Baddie"

- Destruction and Violence: Boudicca's rebellion was marked by extreme violence and destruction. Her forces destroyed Roman towns such as Camulodunum (Colchester), Verulamium (St Albans), and Londinium (London), and it is reported that tens of thousands of Roman civilians and loyalists were killed in brutal ways.
- **2. Roman Perspective**: From the Roman point of view, Boudicca was a dangerous insurgent who disrupted the peace and stability of the province. The Romans portrayed her as a savage and ruthless leader in their historical accounts.
- 3. Historical Bias: The primary sources about Boudicca come from Roman historians like Tacitus and Cassius Dio, who might have portrayed her negatively to justify Roman actions and underscore the perceived barbarism of the Britons.

#### LINKS & FURTHER READING

https://www.bbc.co.uk/teach/class-clipsvideo/articles/zbbv8p3

#### **BBC teach Boudicca**

4

https://www.bbc.co.uk/bitesize/articles/zhn6cqt Who is Boudicca https://www.bbc.co.uk/iplayer/episodes/b01gknyq /meet-the-romans-with-mary-beard

### History Knowledge Organiser – Changing Views

TIER THREE VOCABULARY Over time, the Anglo-Saxons established several kingdoms in England, known collectively as the Heptarchy Heptarchy. These included Northumbria, Mercia, East Anglia, Essex, Kent, Sussex, and Wessex. One of the most significant archaeological sites from this period is Sutton Hoo in Suffolk, where an Anglo-Saxon ship burial was discovered, Sutton Hoo providing rich insights into the culture, art, and social structure of early Anglo-Saxon England. A Germanic tribe originating from the region of Angles Angeln in present-day Germany. They settled in eastern and northern England. A Germanic tribe from the area that is now northern Germany and the Netherlands. They Saxons settled in southern and western England. A Germanic tribe from the Jutland Peninsula in modern-day Denmark. They settled mainly in Jutes Kent and the Isle of Wight. The council of nobles and clergy that advised Anglo-Saxon kings. Also known as the Witan "Witenagemot." A free peasant or commoner in Anglo-Saxon Ceorl society. A high-ranking noble or regional governor in Ealdorman Anglo-Saxon England. A fortified settlement established by the Anglo-Burh (Borough) Saxons for defense against Viking raids. A noble warrior or retainer who served a king or Thegn ealdorman. The pre-Christian religion of the Anglo-Saxons, involving the worship of gods like Woden (Odin) Paganism and Thunor (Thor). The process by which the Anglo-Saxons converted to Christianity, beginning in the late Christianization 6th century with the mission of St. Augustine of Canterbury. Tun (Town) An early Anglo-Saxon settlement or village.

#### Migration into Britain post-Roman

The Migration and Settlement

- Angles, Saxons, and Jutes: These were Germanic tribes from what is now Denmark, Germany, and the Netherlands. The Angles came from the region of Angeln in mode m-day Germany, the Saxons from Saxony, and the Jutes from the Jutland Peninsula in Denmark.
- Initial Invasions: According to historical accounts, such as those by the monk Gildas and later by the Venerable Bede, these tribes initially came to Britain as mercenaries hired by the native Britons to defend against other invaders like the Picts and Scots. Over time, they began to settle and establish their own territories.

#### Key Events and Figures

3

- Hengist and Horsa: According to legend and historical sources like Bede's "Ecclesiastical History of the English People," Hengist and Horsa were two Jutish brothers who led the initial groups of settlers to Britain. They are said to have landed in Kent around 449 CE.
- Battle of Mount Badon: A significant battle in which the native Britons, possibly led by the legendary King Arthur, achieved a temporary victory against the Anglo-Saxon invaders. This battle likely took place in the late 5th or early 6th century.

#### Formation of Anglo-Saxon Kingdoms

- Heptarchy: Over time, the Anglo-Saxons established several kingdoms in England, known collectively as the Heptarchy. These included Northumbria, Mercia, East Anglia, Essex, Kent, Sussex, and Wessex.
- **Cultural and Linguistic Changes**: The arrival of the Anglo-Saxons led to significant cultural and linguistic changes in Britain. Old English, derived from the Germanic languages of the settlers, became the dominant language. The Anglo-Saxons brought their own pagan beliefs, which later merged with Christianity as they converted over the subsequent centuries.

#### Walsham le Willows & Cedric

Life in a medieval English village was structured around agriculture, community, and the feudal system. Villages were the heart of rural life, with most people living as peasants under the authority of local lords. Here's a detailed overview of key aspects of life in a medieval English village:



#### al-Mansur and Baghdad's knowledge



#### **Historical Context**

•Foundation: Baghdad was founded in 762 CE by the Abbasid Caliph al-Mansur. It quickly became the capital of the Abbasid Caliphate and a major centre of political and cultural life.

•Islamic Golden Age: This period, roughly from the 8th to the 14th century, was marked by a flourishing of science, technology, medicine, philosophy, and the arts in the Islamic world.

#### LINKS & FURTHER READING

Anglo-Saxon Crime and punishment <u>https://www.youtube.com/watc</u> <u>h?v= 10j8Ag3lhQ</u>

### Computing Knowledge Organiser – Online Safety

1 TIER THREE VOCABULARY		
Anti-virus	Anti-virus software scans all forms of storage	
	devices for viruses and, if found, attempts to	
	remove them.	
Bias	Being unfairly in favour of one thing over another	
Browser	An application used to view web pages, eg Edge	
Copyright	A law to protect other peoples ideas/work.	
Cyber-Abuse	Being tormented, harassed, humiliated,	
	embarrassed or otherwise targeted by another	
	person using technology	
Cyberbullying	The bullying of another person using the internet,	
	mobile phones and other digital devices.	
Data	Data is information in digital format	
Digital	Digital footprints are a trail of places that you have	
footprint	visited on the internet and	
	the activities and games you have taken part in.	
Downloading	To copy a file from the internet onto your	
	computer or device.	
Email	Electronic mail. A method for sending messages	
	and files to other people.	
File	An object on a computer that stores data,	
	information, settings, or commands used with a	
	computer program.	
Firewall	An application that prevents unauthorised	
	connections to and from the Internet.	
Folder	A storage space where many files can be placed	
	into groups and organise the computer. A folder	
	can also contain other folders.	
Hyperlinks	A link in a document or webpage that connects to	
	another location.	
Internet	A global network connecting millions of	
	computers.	
Malware	Software that is designed to cause harm or	
	damage to a computer.	
Network	A group of interconnected computers/devices.	
Online	Connected to and using the internet.	
Phishing	An attempt to gain personal information about	
	someone by way of deception,	
Plagiarism	Using other peoples' ideas/work and pretending it	
	is yours	
Print-Screen	A way to capture what is on the screen at any	
	giventime	



### How can you stay safe?

#### -Block any bad behaviour you see.

-Report any spams.

4

-Delete any strangers friend requests.

-Always use safe secure passwords.

-Recommended to use private accounts.

-Don't give away any personal information.



This is a report button. You can click on it to report any bad behaviour you might of saw.

### Digital footprint

3

A digital footprint is something online about you. If your a good person there could be a positive footprint about you on the internet. If your a bad person it's more likely to have something bad about you on the internet.



This is an example of a Digital Footprint. Inside of the foot there could be a good or bad thing about you that someone wrote probably.

#### 5

#### What is social media?

Social media is apps that you can use recommended for 13+ years where you can do videos or pictures to people and message them through the apps.





t is recommended for any social media if you are a kid have a revate account so you are safe.

### Computing Knowledge Organiser – Online Safety

1	TIER THREE VOCABULARY	
Program	Sequences of instructions for a computer.	
Pseudonym	An online name – different from a real name. Good to use to keep your identity safe.	
Search Engine	A website that searches through a database (usually for web pages)	
Streaming	Data that is sent in pieces. Each piece is viewed as it arrives, eg a streaming video is watched as it downloads.	
Technological change	The process through which new technologies are generated and introduced	
Trojan	Malware that appears legitimate, but performs some malicious activity when it is run.	
Troll	A derogatory name taken from the troll character in folklore and now used as a term for a person who posts offensive messages online.	
Trustworthine ss	How sure we are that the information is correct	
Upload	To add data to a server on the internet, eg you can upload videos to social media websites.	
URL	Uniform resource locator - Each web page address on a network is written as a URL.	
Virus	Any computer program designed to replicate and damage other computer systems and software.	
WAN	Wide area network. A network that spans across a building, buildings or even countries, eg the internet.	
Web page	Also known as webpage. A page viewed in a web browser.	
Web server	A computer that serves web pages to users.	
Website	A web page or group of web pages hosted on one web server and viewed in a web browser, usually maintained by a person, group or organisation.	



### Computing Knowledge Organiser - Programming

1	TIER THREE VOCABULARY		
Algorithm	A sequence of logical instructions for carrying		
	out a task. In computing, algorithms are needed		
	to design computer programs.		
Casting	Changing the data type of a variable.		
Concatenating	The operation of joining two pieces of text		
ee maatemaaning	together		
	In computer programming, data is divided up		
Data Type	and organised according to type, eg numbers,		
	characters		
Input	Taking user input to be used by the program		
Instruction	A single action that can be performed by a		
	computer processor.		
Integer	A whole number - this is one data type used to		
0	define numbers in a computer program		
Iteration	In computer programming, this is a single pass		
	through a set of instructions.		
<b>a</b> .	Operator is a character that represents a		
Operators	specific mathematical or logical action or		
process. For example, >,+,-,*			
Drogrom	Sequences of instructions for a computer		
Program	The process of writing computer software		
Programming	A high lovel programming language		
Script	A high-level programming code in scratch		
Script	A decision within a computer program using a		
Selection	condition it will select different code to run		
	An ordered set of instructions to complete a		
Sequencing	task.		
Sprite	A programmable object in scratch		
0,000	The smallest element of a programming		
Statement	language which expresses an action to be carried		
	out.		
	A sequence of characters often stored as a		
	variable in a computer program. These		
String	characters can include numbers, letters and		
	symbols.		
	A memory location within a computer program		
Variable	where values are stored.		



<u>Sequence</u> Code runs in sequence, each line of code is run in turn from top to bottom of our code



<u>Selection</u> is the process of making a decision. The result of the decision determines which path the program will take next.



repeat 20

Iteration is the repetition

5	Conditions	
C	Operator	Meaning
	==	Equal to
	!=	Not Equal to
	>	Greater than
	<	Less than
	>=	Greater than or equal to
	<=	Less than or equal to

#### 3 Python Commands

#### Output

#### print("hello")

#### Input String

name = input("What is your name?")
InputInteger

age = int(input("How old are you?"))

#### Selection

feeling = input("How are you feeling?")
if feeling == "Good":
 print("Great to hear!")
else:
 print("Sorry to hear your not feeling good")

### REP Knowledge Organiser – Judaism

Lesson 1 - Seven Dimensions of Religion		Lesson 2 - God and Abraham	Lesson 3 - Joseph	
Common F	eatures of Religions:	Divine Characteristics of God:	Joseph's Background and Family:	
Material	Physical objects used by the religion e.g. Holy books or places of worship	Omnipotent (all-powerful), omniscient (all knowing), omnipresent (everywhere), benevolent (loving),	Joseph is the youngest of 12 brothers and a descendant of Abraham through the line of David.	
Ethical	Rules and regulations e.g. the 10 Commandments	creator, judge.	The Story of Joseph:	
Experiential	Contact with the divine e.g. miracles and religious experiences	Abraham: One of the key patriarchs of Judaism and the man	Joseph's dreams, being sold into slavery by his jealous brothers, his successes and struggles first as	
Mythical	Stories and narratives e.g. Noah's Ark	Abraham's people	a slave and later as an advisor to the Pharaon.	
Ritual	Set actions and practices of significance e.g. infant baptism	The Binding of Isaac: The biblical story in which Abraham offers his son	Joseph's Judgement: Jospeh testing his brothers before agreeing to help them.	
Doctrinal	Core beliefs and values e.g. Hindu belief in the Trimurti	Isaac as a sacrifice to God	Joseph's Faith in God:	
Social	Community practices e.g. Sunday service or festivals such as Eid	<b>Covenant:</b> The agreement that Abraham's people will worship God in return for his protection	The nature of Jospeh's unbreakable faith and trust in God despite the trials and suffering he has to endure.	
Lesson 4	- Moses and the Festival of Passover	Lesson 5 - The Torah and the Synagogue	Lessons 6 & 7 - Shabbat and Jewish Festivals	
The story of Moses: His birth as a Hebrew slave, being raised as the son of the Pharaoh, his flight from Egypt and reconnecting with his people. Moses becomes the chosen Prophet of God, tasked with freeing the Hebrews from slavery in Egypt		<ul> <li>The Torah:</li> <li>Also called the Old Testament, consists of the five books of Moses:</li> <li>Genesis</li> <li>Exodus</li> <li>Leviticus</li> </ul>	Shabbat: Celebrating the creation of the universe by God and the day of rest. Shabbat is performed weekly and involves prayers and a special meal Yom Kippur:	
The 10 Plagues: God sent 10 plagues to Egypt to try and convince the		<ul><li>Numbers</li><li>Deuteronomy</li></ul>	The Jewish New Year, celebrated with a festive meal and time in prayer at the Synagogue	
Pharaoh to let the Hebrew slaves go including turning water into blood, swarms of locusts and the death of the first born children.		<ul> <li>Key Features of a Synagogue:</li> <li>Ark (where the Torah scrolls are kept)</li> <li>Eternal Light - representing the eternal presence of God</li> </ul>	<b>Rosh Hashanah:</b> Festival of atonement where Jews reflect on their actions and make apologies to God	
<b>Pesach (Passover):</b> The festival of Pesach marking the protection of the Hebrews from the plagues, including the Sedar meal and its contents		<ul> <li>Bimah - raised platform from where the Torah is read</li> <li>Rabbi - spiritual leader of the Jewish community</li> </ul>	Hanukkah: A celebration of the liberation of the Temple and the miracle of the everlasting light	

### Art Knowledge Organiser - Natural Form

TIER THREE VOCABULARY 1 Drawing is essentially a technique in which images are depicted on a surface by making lines, though Drawing drawings can also contain tonal areas, washes and other nonlinear marks In relation to art the term form has two meanings: it can refer to the overall form taken by the work-its physical nature; or within a work of Form art it can refer to the element of shape among the various elements that make up a work A line drawing uses the outline of shapes to show the subject. It is Line made up entirely of lines, with no Drawina shading or tones. Mark making describes the different lines, dots, marks, patterns Mark and textures created in a drawing. making It can apply to any drawing materials. The natural form of Natural an object which has not been Forms altered or manipulated, but is in its' original form found in nature. Observational art is drawing or Observatio painting from life. nal drawing Pen is used for creating fine linear drawings and expressive textural Pen drawings.



**Cross Hatching** 

### Art Knowledge Organiser – Natural Form

1 continued TIER THREE VOCABULARY Pencils come in a range of hardness. The higher the number on a H pencil, the harder and Pencil lighter it is; the higher the number on a B pencil the softer and darker it is. Refine to improve your artwork Refine The liahtness or darkness of something – this could be a shade, Tone or how dark or light a colour appears Texture means how something feels. There are two types of Texture texture: actual texture and visual texture. Techniques are skills and methods **Techniques** employed to create a piece of art. Shading is used to represent light and shade to create a sense of Shading depth by varying the colour and intensity of the medium being used If you record something, you keep an account of it through drawing Record or photography so that it can be referred to later. Proportion is the relationship of Proportion one part of a whole to other parts



white paper. Select some interesting natural

forms and practice drawing.





#### LINKS & FURTHER READING



5



The Tate Peter Randall-Page BBC Bitesize Explore the pages looking at drawing techniques.

#### Artists: Peter Randall-Page

### Music Knowledge Organiser



### DT Knowledge Organiser – Textiles Dumpy Doorsteps















Pins	a piece of metal with a point at one end for holding fabric together	Stitch	A thread that passes through fabric	Tie dye	Resist method of dying- created by tying string/ elastic bands around areas of the fabric.
Scissors/shears	Used for cutting fabric	Sew/Sewing	Done by machine of hand to join fabric or add decoration	Applique	Applying 1 fabric to another to create a design
Sewing Machine	A machine used to produce stitches in fabric	Tacking	Temporary stitching to hold fabric in place	Reverse Applique	cutting away a layer of fabric to reveal a shape appliquéd underneath
Needle	a piece of metal with a point at one end and a hole or eye for thread at the other, used in sewing	Hem	The finishing off at the edge of fabric	Embroidery	Decorative stitching by hand or machine
Thread	a strand of cotton, used in sewing or weaving	Seam	Joining two fabrics together	Design	A drawing to show the look of your idea
Tailors chalk	Chalk used to mark fabric	Seam Allowance	Distance between the edge of fabric and the stitching line (1.5 cm)	Annotation	Labelling to explain your design
Fabric	Cloth produced by weaving or knitting textile fibres.	Pattern	A template used to cut out the fabric	Evaluation	Making a judgement about your product
Unpicker	A small piece of equipment with a sharp pointy end used to unpick stitches	Components	Buttons, zips, sequins	Specification	A list of requirements that a product must meet

#### Key Words and Definitions:

### Drama Key Terminology

DRAMA KE	Y WORDS		ADJECTIVES	
VOCAL Tone Pitch Pace Intonation Silence	SKILLS Pause Projection Inflection Accent Emphasis	<ul> <li>abrupt</li> <li>angry</li> <li>anxious</li> <li>assured</li> <li>cold</li> <li>controlled</li> <li>deep</li> </ul>	<ul> <li>enthusiastic</li> <li>firm</li> <li>forceful</li> <li>gentle</li> <li>harsh</li> <li>hesitant</li> <li>loud</li> </ul>	<ul> <li>sarcastic</li> <li>sly</li> <li>soft</li> <li>stutter</li> <li>timid</li> <li>trusting</li> </ul>
PHYSICA Body Language Facial Expressions Gestures Stillness Eye-Contact	L SKILLS Posture Movement Gait Stage Presence Interaction	<ul> <li>aggressive</li> <li>defiant</li> <li>dismissive</li> <li>distraught</li> <li>distressed</li> <li>eager</li> </ul>	<ul> <li>eye contact: direct, focused, avoiding, accusing</li> <li>fearful</li> <li>gentle</li> <li>rapid</li> </ul>	<ul> <li>relaxed</li> <li>slow</li> <li>sluggish</li> <li>smooth</li> <li>smug</li> <li>strong</li> <li>thoughtful</li> </ul>
SPACE PERFORMANCE CONVENTIONS		<ul> <li>anger</li> <li>anti-climax</li> <li>appreciation</li> <li>believable</li> <li>delight</li> <li>development</li> <li>disappointment</li> </ul>	<ul> <li>emotional response</li> <li>empathy</li> <li>emphasis</li> <li>engagement</li> <li>feeling</li> <li>focal point</li> <li>horror</li> </ul>	<ul> <li>interest</li> <li>intrigue</li> <li>irritation</li> <li>light-relief</li> <li>realistic</li> <li>sympathy</li> <li>understanding</li> </ul>
Levels Proxemics Stage Left/Right Centre Stage Transition Blocking Cannon Duologue Soundscape	Freeze Frame Narration Split Scene Thought-Track Mime Improvisation Physical Theatre Unison Monologue	<b>Other Useful Voc abulary:</b> Hot-seating Character Motivation Warm-Up Role-on-the-Wall Genre	Other Useful Vocabulary: Rehearsal Sound Effects Naturalistic Abstract Minimalistic	

### DT Knowledge Organiser – Fan Project

#### 1. Tier Three Vocabulary

Key Words	Definitions
Deciduous	Deciduous trees lose their leaves in winter. The word is from the Latin word decidere, meaning "to fall off."
Coniferous	Coniferous trees are cone bearing and do not have leaves - they have needles.
Hardwoods	Hardwoods come from deciduous trees - they take over 100 years to mature, have a variety of colours and grains and are expensive to buy.
Softwoods	Softwoods come from coniferous trees and are fast growing taking 35 years to mature. They are sustainable.
Manufactured Boards	Manufactured boards are timber products made by compressing and gluing timber fibers.
MDF	MDF - medium density fibre board is a manufactured board made from Pine
Thermoplastics	A type of plastic that can be reshaped when heated to 180 degrees C
Acrylic	A plastic thermoplastic that is clear and can come in a range of colours.
Pilot Hole	The first small hole to drill when joining two items together.
Countersink	A cone shape drill that is used to keep screw heads flush with the surface.
Jigs	A tool used to help manufacture several parts/holes to the same size/location

#### 2. Skills in the workshop

Marking out	Using a try square, steel rule and pencil to mark out accurately on material.	
Cutting and shaping	Using coping saw and electric sander to cut and shape material accurately.	
Drilling	How to change dril bits, secure work ready for drilling - Pilot holes, clearance holes and countersinks. Using Jigs to drill holes and form thermoplastics int the correct shapes	
Forming		
Soldering	Creating electric circuits to power a motor with a battery pack and switch. Using a soldering iron to solder and join wires together.	

#### 3. Assembly/Testing

When the components are produced they will have to be assembled correctly to work.



After you have made all the component parts of the fan project you will need to assemble them togeter in the correct sequence (order) using

hand tools. After assembly testing needs to be done and any faults identified and rectified.

#### 4. Workshop Safety

- Leave your bags in the bag space so that people don't trip over them.
- Never run in a workshop.
- Don't play with the vice on the workbench as it can easily pinch your skin.
- Tell the teacher if there is sawdust/metal ilings on your workbench – Don't blow them or brush away with your hand.
- Don't touch tools without permission from the teacher
- Only use equipment you have been trained to use
- Make sure you know where the emergency stops are



- Tie back long hair and loose clothing in the workshop
- Put extraction on when sawing/drilling/ soldering

#### 5. Links and Further Reading

Materials:

https://www.bbc.co.uk/bitesize/topics/zh4cqyc/ articles/zmgrdnb#zt49qyc



Safety: https://www.bbc.co.uk/ bitesize/topics/zh4cqyc/ articles/zq89qyc#zxqwxg8

Revise:Mindmap Maker is.gd/mindmapmaker





### DT Knowledge Organiser – Food and nutrition

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1 TIE	TIER THREE VOCABULARY	
Hygien	E Keeping things clean and germ-free, especially when it comes to food and cooking.	
Safet	Taking precautions to make sure that no one gets hurt or sick while working with food or in the kitchen.	
Bridge Hol	A way of holding a knife where you grip the handle with your hand and rest your index finger on the blade for better control.	
Claw Gri	Holding food with your fingers curled like a claw to keep it stable and stop your fingers from getting cut while cutting or chopping.	
Knife/Knive	S Sharp tools with a blade used for cutting and slicing food.	
Nutrient	Important stuff found in food that gives our bodies energy and helps us grow and stay healthy.	
Balanced Die	Eating different types of food in the right amounts to get all the nutrients our bodies need.	
Protei	A nutrient found in foods like meat, fish, eggs, and beans that helps our bodies build and repair tissues.	
Fc	A type of nutrient that gives us energy, keeps us warm, and helps our bodies absorb certain vitamins, found in foods like butter, oil, and meat.	
Carbohydrate	A type of nutrient found in foods like bread, pasta, and potatoes that gives our bodies energy to do stuff.	

4

#### THE EATWELL GUIDE

The Eatwell Guide is a great way of ensuring that you get a balance of healthier and more sustainable food. It shows how much of what you eat overall should come from each food group.



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#### PREPARING THE FOOD HANDLER

It is important to make sure that if you are about to handle food that you prepare yourself. You need to make sure that your hands are cleaned and surfaces where food will touch is clean too. It is important to make sure that the chopping boards you use to prepare meat is on a separate chopping board. Any food needs to be stored at the right temperature as well.



#### KNIFE SKILLS

3

There are different ways of cutting food depending on the type of food you are cutting. Below are two of the most common methods: the Claw Grip, and the Bridge Hold.



#### 6 LINKS & FURTHER READING

Video: The Eatwell Guide http://y2u.be/7MIE4G8ntss

#### Article:

Safety in the Kitchen https://cpdonline.co.uk/knowledgebase/safeguarding/kitchen-safetyrules-for-children/

Revise: Mindmap Maker is.ad/mindmapmaker

#### SAFETY IN THE KITCHEN

Safety is extremely important when it comes to working in the kitchen. There are a few key things to keep in mind to ensure that everyone stays safe while cooking. First, always wash your hands with soap and water before handling any food to prevent the spread of germs. It's also essential to handle knives and other sharp objects with caution, using proper techniques and focusing on what you're doing. When using the stove or oven, be mindful of hot surfaces and use oven mitts or potholders to protect your hands. Additionally, make sure to turn off appliances and unplug them when you're finished using them. Lastly, be aware of potential hazards like spills, cords, and loose clothing that can cause accidents, and keep a clean and tidy workspace to avoid trips and falls.