

Knowledge Organiser 2024 Year 7 | Summer





PUPIL DETAILS

TIMETABLE

Name	
Tutor Group	
Tutor Room	
House	
Library No.	
Locker No.	
At Kings', there are people that I can go to if anything is worrying me.	My Trusted Adults are: 1. 2.

What I need for PE:

My Passwords		
Platform	Password	

	Monday	Tuesday	Wednesday	Thursday	Friday
1					
2					
3					
Lunch					
4					
5					
After School					



KINGS'

SCHOOL · WINCHESTER

OUR SCHOOL VALUES

At Kings' our Values are at the heart of our school culture. They underpin our mission that we are **Working Together to Achieve Inspiring Futures, Exceptional Character, and Academic Excellence**.

We are reminded of our mission by our motto, Una Laborantes (Working Together), and our core values – developed and agreed by the Kings' community of pupils, staff, parents, and carers – help to guide every child, employee, and volunteer towards attaining that goal.

These values act as our inspiration and navigation in our learning, our work, and our life at school as we work together so that you achieve personal growth and future academic success.



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HOURS OF ATTENDANCE

Pupils must arrive at school by **8.45 a.m**. and although some pupils may arrive at school earlier than this, parents are advised that there will be no staff supervising pupils before 8.30 a.m.

Pupils are considered late if they have not registered by 8.45 a.m. (unless they are late with good reason e.g.: school bus was late.) Punctuality to lessons is important. <u>Repeated lateness is sanctioned</u>.

If for any reason pupils are late for school, or need to leave school early, they must bring a note signed by a parent/carer. They should then 'sign in/out' at Reception.

Time	Movement
08.45 - 09.10	Tutor Time
	Movement
09.15 - 10.15	Lesson 1
	Movement
10.20 - 11.20	Lesson 2
	Movement
11.25 - 12.25	Lesson 3
12.25 - 13.05	Lunch
	Movement
13.10 - 14.10	Lesson 4
	Movement
14.15 - 15.15	Lesson 5

bullying has <u>no</u> place at kings'

At Kings, we firmly believe in fostering an inclusive and supportive environment for every individual within our community. Bullying in any form is completely unacceptable. Our school must be a safe space where everyone is able to thrive.

Our values of kindness, humility and integrity mean that we tackle negative behaviour proactively:

- 1. **Recognise the signs:** It's important to be able to identify bullying behaviours. Bullying can manifest in various forms, such as physical, verbal, social, or online. Look out for signs like repeated teasing, name-calling, exclusion, spreading rumours, physical aggression, or cyberbullying.
- 2. **Report:** Don't face bullying alone. Reach out to your trusted adult, trusted friends, family members, or other teachers who can provide guidance and support. This can be done face to face or on the safeguarding tile.

Remember, nobody deserves to be bullied, and you have the right to feel safe and respected. If you witness bullying, ensure that you report it so that we can keep every member of our school community safe.



Safeguarding Concern



HOMEWORK

Homework at Kings' is central to our mission of helping you have an inspiring future and building your exceptional character and achieving academic excellence.

It also embodies our values:

- · Earn Success: Homework reinforces learning, and a strong work ethic.
- **Discovering Brilliance:** Homework encourages critical thinking and problemsolving, helping students discover their brilliance and unique abilities.
- **Unlimited Ambition:** Engaging in homework fuels intellectual curiosity and a desire for lifelong learning, going beyond the boundaries of formal education.

Homework should enable you to learn, or practise what you have been taught in school. To consolidate your learning, you can also practise learning from your knowledge organiser.

Key Stage 3 For how long?		Set	Type of homework			
Core	Core					
Science	30 minutes	Once a week	Educake Knowledge Organiser			
Maths	30 minutes	Once a week	Sparx			
English	30 minutes	Once a week	Variable			
Languages	20 minutes	Once a week	Variable			
Innovation Subj	ects					
Tech 20 minutes		Once a week	Variable			
Computing 20 minutes		Once a week	Variable			
Humanities						
Geography 20 minutes		Once a week	Variable			
History	20 minutes	Once a week	Variable			
RE	20 minutes	Once a week	Variable			
Creative Arts						
Drama 20 minutes		Once a week	Variable			
Music	20 minutes	Once a week	Variable			
Art	20 minutes	Once a week Variable				
Reading	20 minutes	Every day				

Have you learned it?

Your Knowledge Organiser contains the core knowledge that you need to know and learn.

Use your Knowledge Organiser to see if you can complete the following activities. If you can do these things, you know something well. How many can you do?

- 1. Answer a question about it, under a time pressure.
- 2. Explain it in your own words.
- 3. Teach it to someone else.
- 4. Apply what you know in a new context.
- 5. Remember it a week, a month or a year later?

Some things that may help you remember information:

- 1. Well-designed flashcards that you have made with key information.
- 2. Mnemonics, such as *"Richard of York Gave Battle In Vain"* (visible light spectrum the rainbow)
- 3. Mind maps (keep the paper landscape)
- 4. Timelines (dates of key events, in order)
- 5. A grid of key quotes according to characters and themes.
- 6. Creating a story that includes all the information.
- 7. Answering practice questions
- 8. Re-create a section of your Knowledge Organiser from memory.



Name Subject Class/Group Classroom





Pupils must keep all of their equipment in a clear plastic pencil case, suitable for exam use.

The minimum stationery needed is on the back cover of this Knowledge Organiser.

	Date
	Presentation Guidelines
	Neat presentation of your work is important.
	It shows that you care about your learning.
1.	The lesson title should be written and underlined with
	a ruler.
2.	The date should be written on the top, right-hand side of
	the page and underlined.
3.	Pupils should write in blue or black ink. Key words can be
	highlighted or underlined.
4.	Pencils should be used for drawings, diagrams and graphs.
5.	All underlining must be done using a ruler.
6.	All loose sheets must be stuck into exercise books.
7.	Feedback work should be clearly indicated – green
	(or another coloured) pen should be used for all
	improvement tasks.
8.	A line should be used to rule off after every piece of work.



KINGS'

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How to use your knowledge organiser

You are given a Knowledge Organiser at the beginning of the term. You are responsible for it and need to take care of it. Please do not lose it, or doodle on it. We will ask you to replace any lost/defaced Knowledge Organisers, as they are a tool that you and your teachers will use in lessons and for homework.

Your teachers have created Knowledge Organisers to support each unit of learning across Key Stage 3. These are then compiled into a booklet for you. Knowledge Organisers

are a simple tool that provides the foundational knowledge required for each particular unit across each subject. These are called your **Knowledge Base**. They are not the whole curriculum – you will be taught much more than this, but they do outline the basic knowledge that every pupil should know.

Your teachers will tell you how often you will need to learn from your knowledge organiser when it is set as homework. Working with a knowledge organiser every day helps to establish routines in home learning, developing a confident use of vocabulary and independent study skills. You will be tested on the information that you have learned from the knowledge organisers in your lessons. There are many effective ways of learning from a Knowledge Organiser. One way that your teachers may use is called: Look, Cover, Write, Check. Please do not be tempted to just copy from the Knowledge Organiser – studies have shown that this is not effective.

Subjects have also added other information for you – this is indicated in a section called a **Knowledge Builder**. This may be extension tasks, or further study that may interest you.

Please scan the QR below to watch the video for more information on what Knowledge Organisers are, and how to use them:











1. Visual elements				
1.1	line	A cont	A continual mark that joins two points together.	
1.2	tone	How li	ght or dark something is.	
1.3	texture	How so	omething feels or looks like it feels.	
1.4	colour	A react	tion in our eye to the light reflected.	
1.5	pattern	Made	from a repeated shape or motif.	
1.6	shape	A 2-dir	nensional area with height and width.	
1.7	form	A 3-dir	A 3-dimensional object with height, width, depth.	
2. Colour theory				
2.1	primary colours		Red, yellow, blue.	
2.2	secondary colours		Orange, green, purple.	
2.3	tertiary colours		When you mix a primary and secondary colour.	
2.4	complementary colours		Colours that are opposite each other on the colour wheel.	
2.5	analogous colours		Colours that are next to each other on the colour wheel and that blend well together.	
2.6	hot/warm colours		Reds, oranges, yellows.	
2.7	cold/cool colours		Blues, greens, purples.	
2.8	colour wheel		A circle with different coloured sectors used to show the relationship between colours.	

6. Pair	6. Painting		
6.2	paint proportions	Quantity of paint to create the correct colour.	
6.3	paint application	How the paint is applied.	
6.4	tint	The variation of a colour by adding white to it.	
6.5	shade	The variation of a colour by adding black to it.	
6.6	tone	The variation of a colour by adding grey to it.	

Fabric Painting		
3.1	calico	Unbleached cotton fabric.
3.2	coloured inks	Transparent liquid colours used for painting on fabric.
3.3	bleeding	Allowing one colour to run into another to mix.

4. Stit	4. Stitching		
4.1	thread	Spun fibres used to sew fabric together.	
4.2	needle	A small slender piece of metal with an eye that is used for sewing.	
4.3	running stitch	The simplest stitch. Small even stitches which have a gap between that run across the cloth without overlapping.	
4.4	back stitch	A double stitch that creates a solid line.	
4.5	laced running stitch	A running stitch that has another colour thread woven through it.	
4.6	blanket stitch	A stitch used to reinforce the edge of thick materials.	
4.7	embellishment	Adding decoration to your work using beads, buttons or sequins.	

5 Vinc	cent Scarpace	
5.1	Nationality	American
5.2	Occupation	Teacher
5.3	abstract	A style of art that does not attempt to represent reality but seeks to achieve its effect using shapes, colours and textures.
5.4	His inspiration	Sea life, especially fish.
5.5	painting analysis	Describing the painting or image in great detail.



Visual elements





Watch how to paint the colour wheel.



Mixing paint to create tints and shades of a colour. Add white to create tints, black to create shades.



Blending from yellow through green to blue.



Pattern



Hand Embroidery Stitches



Vincent Scarpace – Abstract Fish





	1. Com	1. Computational Thinking				
	1.1	computational thinking	Considering a problem in a way that a computer can help us to solve it.			
	1.2	decomposition	Breaking down a complex problem into smaller parts.			
	1.3	abstraction	Reducing unnecessary detail and focusing on the important parts of a system.			
	1.4	algorithms	Developing instructions to solve a problem; the steps or rules to complete a task.			
	1.5	evaluation	Considering If the solution is 'fit for purpose'.			

2. Alg	2. Algorithms				
2.1	algorithm	A set of instructions, steps or rules to solve a problem or complete a task.			
2.2 pseudocode A way of writing algorithms that uses plair		A way of writing algorithms that uses plain text English.			
2.3	flowcharts	A diagram that represents an algorithm using standard symbols.			
2.4	programming	The process of writing computer code to create a program; translating the steps in an algorithm into a language that the computer can understand so the problem can be solved.			

3. Intro	3. Introduction to the Micro:Bit				
3.1 Micro:Bit		A miniature computer which is fully programmable.			
3.2	compile	The process of translating our program code into machine code.			
3.3	accelerometer	A component of the Micro:Bit which can sense movement.			



	4. Key words				
	sequence	Putting instructions in a suitable order for your program to function properly.			
	iteration	Repeating something – either using Forever, For, While or Repeat.			
	pattern recognition	Looking for patterns within the problem to allow them to be solved together.			
	selection	A decision within a program which can either be Yes/No, True/ False. Allowing your program to take different paths. (IF statements)			





Bite size -Programming



Micro:bit Make Code



Make code







Boost your programming skills



Crypto Club



Your own micro bit starter kit

Books to Read

> THE OFFICIAL BBC MICRO:BIT

Stretch y	Stretch your vocabulary				
a.1	logical reasoning	Applying rules to solving problems, using existing knowledge to make predictions, explaining why something is the way it is.			
a.2 cryptography Used to by the i		Used to send messages so they can only be read by the intended recipient.			
a.3	cipher	Used to scramble and descramble messages and information.			
a.4	Atbash cipher	A very old cipher used with the Hebrew alphabet.			
a.4	Pigpen Cipher	A symbol substitution cipher used in 18th Century which substituted each letter of the alphabet with a symbol.			
a.5	Caesar Cipher	A shift cipher first used by Julius Caesar 58BC.			
a.6	Alan Turing	A mathematician, cryptographer, and a pioneer of computer science, who may best be known for his work at Bletchley Park during World War II, and his part in breaking the German Enigma code.			
a.7	Enigma	An encryption device developed and used by Nazi Germany during World War II.			



1. Introduction to Spreadsheets				
1.1	spreadsheets	Are used to store information and data.		
1.2	uses of spreadsheets	 Budget tracker Stock tracking of a business Money use in a business Teacher may use it to keep a record of pupils' grades. 		
1.3	formula	Formulas are used to work out calculations.		
1.4	active cell	When you click on a cell to choose it, it becomes the active cell and has a thick black line around it.		
1.5	row	The grid has rows labelled with numbers. A row goes across the grid.		
1.6	columns	The grid is made up of columns that are labelled with letters. A column goes down the grid.		
1.7	values	Values are the numbers we have to put into a spreadsheet so that it can do calculations for us.		

2. Functions in Spreadsheets				
2.1	function	When you add a word to a formula (e.g. SUM) then it becomes a function. Each function performs a specific task.		
2.2	SUM	Adds up a range of selected cells.		
2.3	MIN	Finds the minimum value of selected cells.		
2.4	MAX	Finds the maximum value of selected cells.		
2.5	AVERAGE	Finds the average of selected cells.		

2. Syml	ools	in spreadsheet	
2.1	=	All formulas start with an equals.	Formatting Cells Changes the way text is
2.2	+	This symbol is used to add numbers together.	displayed in a cell Font type Font size
2.3	-	This symbol is used to takeaway numbers.	Calibri • 11 • $A^* A$ = = B I U • $A^* A$ = = =
2.4	*	This symbol is used to multiply numbers together.	Bold, Italics, Changes the colour of text
2.5	/	This symbol is used to divide numbers.	Underline Puts borders on a cell cell

4. Key words	4. Key words				
worksheet	A collection of cells organized in rows and columns.				
cell	A box in which you can enter a single piece of data.				
sort	The arrangement of data into a specific sequence. E.g. A-Z, smallest to largest.				
ascending	Arranged in a series that begins with the least or smallest and ends with the greatest or largest.				
descending	Arranged in a series that begins with the greatest or largest and ends with the least or smallest.				
labels	Labels are pieces of text that we add to the spreadsheet to give us information about the numbers.				
formatting	To change the appearance, layout or organisation of a spreadsheet.				
graphs and charts	A visual representation of data from a worksheet that can bring more understanding to the data than just looking at the numbers.				









Excel Projects



Advanced Excel projects

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Clipboard G	Font	6 7			 Formula 	ula Bar
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Stretch y	our vocabulary	
a.1	lf statement	The Excel IF Statement tests a given condition and returns one value for a TRUE result and another value for a FALSE result.
a.2	V lookup	'Vertical Lookup'. It is a function that makes Excel search for a certain value in a column (the so called 'table array'), in order to return a value from a different column in the same row.
a.3	macro	An action or a set of actions that you can run as many times as you want. When you create a macro, you are recording your mouse clicks and keystrokes.
a.4	absolute cell reference	A cell reference that does not change when the cell is moved, copied or filled.
a.4	conditional formatting	A feature of Excel which allows you to apply a format to a cell or a range of cells based on certain criteria.
a.5	data types	A particular kind of data item, as defined by the values it can take, e.g. numbers, text, date.



Careers that use Spreadsheets



1. Core	e Knov	vledge	
1.01	T1	character	A person portrayed in a drama.
1.02	T1	genre	A style or category of drama.
1.03	T1	design	A drawing produced to show the look and function of a garment, before it is made.
1.04	T1	costume	A style of dress, including garments, accessories and hairstyle, characteristic of a particular country, period or people.
1.05	T1	annotation	A comment added to a text or diagram, to give a more detailed explanation.
1.06	Т2	mood board	An arrangement of images, materials, pieces of text, intended to project a particular style or concept.
1.07	Т3	stage presence	The energy, or charisma and appeal, that an artist has whilst performing.

3. Cos	3. Costume Vocabulary					
1.16	T1	fabric	Cloth or other material produced by weaving or knitting fibres.			
1.17	T1	swatches	A small sample of fabric intended to demonstrate the look of a larger piece.			
1.18	T1	template	A pattern for cutting out fabric.			
1.19	T1	mannequin	A person or dummy used by a designer to model clothes.			

4. Unit Co	4. Unit Context					
Peter	National theatre production performed in 2017					
Pan	Directed by Sally Cookson					
	Costumes by Katie Sykes					
	This production reimagines JM Barrie's story using a mixture					
	of costume and make up styles to give a different view of a period classic tale.					

2. Cost	tume Tei	rminology	
1.08	T1	toile	An early version of a finished garment made up in cheap material so that the design can be tested and perfected.
1.09	T1	fit	How clothes fit the body - e.g- tight, structured and loose.
1.10	T1	fastening	How two pieces of a garment come together e.g- hooks and eyes, self-gripping devices, buttons and buttonholes, and zippers.
1.11	T1	accessories	An item used to contribute to a costume e.g- hat, gloves, earrings.
1.12	T1	shape	The silhouette, or overall outline of a garment or other item.
1.14	T1	texture	The body and surface of fabric. Textures may be rough or smooth, coarse or fine, crisp etc.
1.15	T1	style	This reflects the class, gender, profession, context, historical period etc.

Example of a Toile used to test a costume design before making it



1. Perfo	orm Ver	ry Successfully		2. Unit	Key Vo	cabulary	
Physical	1.1	body language	Non-verbal communication by movement or position, particularly facial expressions,	1.10	Т3	forum theatre	Encourages audience interaction and explores different ways of presenting a story.
			gestures and the proxemics of actors on stage.	1.11	T2	still image	Actors create an image using their bodies – with no movement.
	1.2	facial expression	The way in which an actor's face is moved or held, in which it conveys an emotion that tells	1.12	T1	montage	A sequence of images that tell a story.
			us about the character and the way they react to a situation.	1.13	T1	narration	Providing the audience with background information or commentary on the action of the play.
	1.3	gesture	A defined movement which clearly communicates meaning.		T2	role play	To perform a character, different from ourselves, in a way that our audience believe they are real.
Vocal	1.4	tone	How hard or soft an actor's voice is when delivering lines to convey meaning e.g. a hard	1.15	Т3	choral speaking	An ensemble speaking or moving together or sharing a speech.
			tone to communicate frustration or anger.	1.16	T2	split screen	When two scenes are taking place in different time
	1.5	emphasis	Stress on a particular word or phrase within a				zones and in different locations.
			meaning.		T2	hot-seating	When an actor is asked questions to which they answer in role. This enables them to explore situations
	1.6	pace	The speed at which lines are delivered. Speed of speech conveys how a character is feeling.				and motivations for their character.
		<u> </u>					
Snatial	17	facings	The direction an actor faces within a scene	3. Drama Key Vocabulary			
Spatial	1.7	Tuenigs	The direction an actor faces within a sectic.	1.18	T1	characterisation	The act of changing your voice, movement,
	1.8	proxemics	The use of space/distance between				body language and gesture when in role throughout a performance
	1.0	Levele	relationship between them.		Т2	improvise	To create and perform spontaneously or without preparation.
	1.9	IEVEIS	Can be used to suggest different locations, status and authority one character has over another.		Т3	Augusto Boal	Brazilian theatre practitioner who created the 'Theatre of the Oppressed'.

4. Unit Con	l. Unit Context								
lrena Sendler	Polish Holocaust hero	Malala	Political and female education hero	Rosa Parks	Civil rights hero	Marcus Rashford	Social change (and football) hero	Greta Thunberg	Climate change hero

Heroes



READ - RSC





WATCH - National

Theatre Costume film



READ - Find out more about Irena Sendler



WATCH - Horrible Histories Rosa Parks clip



READ - One of these heroic books!









-						
Texts	Texts and Resources					
1.1	Harry Potter and the Goblet of Fire	Joanne Rowling, pen name JK Rowling, a British author whose biography spans a variety of genres. She is most famous for creating the Harry Potter wizarding series.				
1.2	Frankenstein, or, The Modern Prometheus	Mary Shelley, daughter of political-philosophical writer Mary Wollstonecraft, was a pioneer in the field of Gothic Literature in the 19 th century.				
1.3	The Witches; Matilda	Roald Dahl, a British author whose published works span both children's and adult fiction, poetry, and playtexts.				
1.4	The Lion, the Witch, and the Wardrobe	CS Lewis, a British author and theologian. His academic and literary brilliance saw him employed as a lecturer at both Oxford and Cambridge universities.				
1.5	Dracula	Abraham (Bram) Stoker, an Irish author and dramaturge who is best known for his high-gothic novel Dracula.				
1.6	The Hobbit	JRR Tolkien, a British author and passionate linguist. Tolkien served in the army, was a university Professor, and an author.				
1.7	Alice's Adventures in Wonderland	Lewis Carroll, a British novelist, poet, and occasional mathematician.				

Vocabular	Vocabulary				
2.1	villain	A character in a story who opposes the hero, and generally exhibits evil behaviour.			
2.2	antagonist	A character opposes or is hostile to someone or something but is not necessarily evil.			
2.3	protagonist	The leading character or one of the major characters in a story, generally a symbol of purity or hope.			
2.4	malevolent	Demonstrating the desire or ability to harm another person.			
2.5	treachery	To betray someone, to go against a promise or contract of faith.			
2.6	evil	To be profoundly wicked, without morals, without empathy.			

7	5.1	Jacob and Wilhelm Grimm	The Brothers Grimm are renowned for their creation of several dark, twisted fairy tales with a strong moral lesson at their centre.
	5.2	Witchcraft	The practice of supernatural powers, the invocation of spirits from unearthly worlds, the study of the Occult Arts. A practitioner of witchcraft is most commonly known as a witch.
	5.3	Didactic narratives	Stories which contain a moral lesson, experienced by the characters, to be learned by the reader.
	5.4	Nonsense literature	Narratives of escapist nature, balancing elements which make sense, and those which defy logic.
	5.5	Gothic literature	Narratives defined by a sense of dread, exaggerated emotions, death, and danger.

Techn	iques		
3.1	hyperbolic Language	Written text intended to exaggerate the reality of a situation: emotions are deeper, characteristics are grander, colours are brighter etc.,	
3.2	dramatic Imagery	Emotive language used to create vivid narrative or thematic imagery, especially for a purpose or intent.	
3.3	narrative voice	The perspective from which a story is told.	
3.4	extended metaphor	The presence of a metaphor, developed over extended extracts of text, to reinforce a message or image.	

Theme	es	
4.1	adversity	Unpleasant or dangerous situations or events which challenge a protagonist.
4.2	cruelty	The intention to act with harmful intent against a person or animal.
4.3	morals	How people decide what is right and wrong.
4.4	punishment	To cause someone who has done something wrong, or committed a crime, to suffer.



The Hound of the Baskervilles - Characters						
1.1	Sherlock Holmes	The famous private detective, who uses his powers of deduction to solve crimes.				
1.2	Dr Watson	Sherlock Holmes' sidekick and assistant, he accompanies Sherlock on his cases and helps him solve them.				
1.3	Inspector Lestrade	Inspector Lestrade is a detective at Scotland Yard. He often consults Sherlock Holmes on his cases. Sherlock Holmes is sometimes rude about Lestrade, thinking him uneducated and dim-witted.				
Cont	ext					
2.1	Victorian England	The period of time between 1820 and 1914, so called because the monarch was Queen Victoria (for most of this time.) The time was defined by advances in science, but also for its strict class and gender hierarchy.				
2.2	detective agencies	There were many private detective agencies all around the world in the 1800s and early 1900s. The police as we know it today did not exist to begin with, so many turned to private detective agencies to solve crimes.				
2.3	Scotland Ya	The headquarters of the Metropolitan Police – this term is often used to refer to the London police force more widely who worked alongside Sherlock Holmes.				
2.4	Gothic Fict & the supernatur	A genre of fiction that explores fear, the supernatural & the past being at odds with the present. Anything that cannot be explained by Science.Ghosts, magic, witchcraft, prophecies or demons for example				
2.5	Science & Religion	In Victorian England, most people were Christian. Advances in scientific discoveries in the Victorian era began to challenge what society believed about religion & the supernatural, for example, the Theory of Evolution. This suggested that humans evolved, and were not descended from Adam and Eve.				
2.6	Social class	In Victorian society, one of the most important factors to a person's identity was their social class – this broadly means how wealthy a person was, with working class people having little money, and the upper classes being very wealthy. In The Hound of Baskervilles, the Baskerville family are upper class and the Barrymores are working class.				
2.7 Gender		Gender is the contrast between men and women. In Victorian society, the second most important thing behind your social class was whether you were male or female. Women were not allowed to vote and were seen as second-class citizens. If you were working class and female, you were not seen as very important in society.				

Tech	Techniques					
3.1 stage directions		The instructions to the director about how a stage should be set up <i>OR</i> the instructions given to the actors telling them how to speak and how to act. Normally these are in [square brackets]				
3.2	entrances & exits	When characters come onto the stage or leave the stage. Often this is done to achieve a specific effect.				
3.3	lighting	Lighting is used on stage to highlight particular characters, events or settings. The lighting is also used to help create a mood.				
3.4	music & sound	Sometimes the music is used to create a mood and sometimes sounds are used to help establish setting. i.e the sound of a train station.				
3.5	props	Important objects that are used to help establish character (i.e. Sherlock Holmes' violin)				
3.6	monologue	A part of the play where one character is speaking, sometimes directly to the audience				

Vocal	oulary	
4.1	erroneous	Wrong or incorrect. Sherlock Holmes came to an erroneous conclusion.
4.2	furtive	Secretive, attempting to avoid notice. With a furtive glance, the convict crept down the corridor.
4.3	deduction	Reaching a decision through thinking about the known facts. The detective solves the crime through the process of deduction.
4.4	amiable	Pleasant and friendly He was an amiable and cheerful fellow.
4.5	hard- headed	Practical and realistic, not sentimental. A practical, hard-headed man of business.
4.6	luminous	Giving off a steady , glowing light. The moon glowed in a luminous way.



Books to read:



Films and Shows to watch::

LAINOUS

Learn more about the Brothers Grimm:



Learn more about witchcraft:



Stretch your vocabulary An opponent in a contest, conflict, or argument. adversary The use of powerful magic, especially black magic. sorcery The existence and study of mystical, supernatural, or magical occult powers and its practices. The concern of, or interest in, the subject of death or decay. macabre spite The desire to hurt, annoy, or offend someone due to a grudge or past slight. The act of deliberately causing someone to believe something that deceive is not true, especially for personal gain. Forcibly exercising power over others in a cruel or paranoid fashion. tyrannical

Books to read:







agathe Christie

MURDER

ENT RESS



Films and

Shows to

watch:





COOKING ZONE

DANGER ZONE

> COLD ZONE



1a. Food safety and hygiene – 4 C's				
1a.1	cleaning	Wash hands and clean work surfaces and equipment before cooking to kill harmful bacteria.		
1a.2	cooking	Cooking kills harmful bacteria. At 75°C kills most bacteria is killed.		
1a.3	chilling	Chilling below 5°C slows down bacteria multiplying. Store in fridge (0-5°C) or freezer (0-18°C).		
1a.4	cross- contamination	Bacteria is spread from one surface to another.		

2. Alle	2. Allergies and food intolerances			
2.1	allergic reaction	An immune reaction that the body has to a food or substance. They can be life-threatening.		
2.2	allergen	A substance that causes an allergic reaction.		
2.3	food intolerance	When the body cannot break down certain foods. It can cause stomach pains, diarrhoea and vomiting.		

1b. Food safety and hygiene – key temperatures					
100°C	Water boils.				
75°C	All bacteria is killed. Cooked food is safe to eat at this temperature.				
63°C	Hot holding temperature. Bacteria cannot multiply.				
5-63°C	Danger Zone! Bacteria grow rapidly in this range.				
0-5°C	Fridge temperature. Bacteria grow slowly.				
018°C	Freezer temperature. Bacteria are dormant (asleep).				

1c. Food safety and hygiene – storage and preparation

3. Food s	3. Food science				
3.1	enzymic browning	Oxidation reaction that takes place on the surface of fruits and vegetables, causing the food to turn brown.			
3.2	raising agent	Something that makes a mixture rise. For example, whisking, baking powder and yeast.			
3.3	gluten	The protein in flour that helps make dough elastic, helping it to rise.			
3.4	kneading	Movement to stretch the gluten in dough.			
3.5	fermentation	The reaction where yeast releases carbon dioxide.			
3.6	setting	When a mixture turns from liquid to solid.			



Nutrition and Healthy Eating



4. Pract	4. Practical skills				
4.1	bridge hold	Form a bridge over the ingredient with your hand and put the knife underneath.			
4.2	claw grip	Curl fingers inwards and grip the food with your fingertips, keeping fingers away from the knife.			
4.3	simmer	When a liquid stays below boiling point, bubbling gently.			
4.4	rub-in	Coating flour grains in fat using fingertips to make breadcrumbs.			
4.5	glaze	Liquid is used to form a smooth, shiny coating on food.			
4.6	whisk	To beat a mixture to add air and make it light.			
4.7	sifting	Passing flour through a sieve to remove lumps and add air.			
4.8	knead	To massage and push a dough to stretch and develop the gluten.			
4.9	prove	Allowing a bread dough to rise.			
4.10	blend	Making a mixture smooth by using a blender.			
4.11	reduction sauce	A sauce that uses boiling and simmering to thicken it.			

5. Sensory analysis				
5.1	taste	Sweet, salty, umami (savoury), bitter, sour.		
5.2	texture Soft, crunchy, juicy, crumbly, light, thick.			
5.3	appearance	Golden, colourful, rich.		
5.4	aroma (smell)	Cheesy, sweet, aromatic.		





6b. Nutrition - Eatwell Guide



6c. Nutrition - 8 tips for healthier eating

- 1. Base meals on starchy carbohydrates.
- 2. Eat lots of fruits and vegetables.
- 3. Eat more fish including a portion of oily fish.
- 4. Cut down on saturated fat and sugar.
- 5. Eat less salt (max. 6g a day for adults).
- 6. Get active and be a healthy weight.
- 7. Don't get thirsty.
- 8. Don't skip breakfast.

6d. Nutrition			
6d.1	macronutrients	Nutrients that we need in large amounts. Fats, carbohydrates and protein.	
6d.2	fat	A macronutrient needed to give us energy.	
6d.3	protein	A macronutrient needed for growth and repair.	
6d.4	carbohydrate	A macronutrient needed to give us energy.	
6d.5	micronutrients	Nutrients that we need in small amounts. Vitamins and minerals.	
6d.6	fibre	A type of carbohydrate that keeps our gut healthy.	
6d.7	water	Helps to keep us hydrated. 6-8 glasses a day required.	





Find the Eatwell Guide Knowledge Organiser for more information about healthy eating The Eatwell Guide.



Calculate the energy and nutrients provided by a food diary for one or two days using the calculator above and reflect on the results





Programmes to watch:



Food Unwrapped – explores how our favourite foods are made industrially.

Stretch your vocabulary					
al	coagulation The setting of protein in the presence of heat and/or acid.				
a2	calcium	A mineral that helps to support strong bones and teeth.			
a3	iron	A mineral that helps to make red blood cells.			
a4	vitamin D	A vitamin that helps to absorb calcium to support strong bones and teeth.			
a4	phosphorus	A mineral that helps to support teeth and bones.			



Explore The Grain Chain, following the processing of wheat to flour.

à droite

entre

derrière

devant

tout droit au carrefour right

straight on

between

behind

in front of

at the crossroads

usually normally

every weekend

sometimes



1. Là où j'habite	Where I live
Qu'est-ce qu'il y a?	What is there?
Il y a	There is
un café	a café
un centre commercial	a shopping centre
un centre de loisirs	a leisure centre
un château	a castle
un cinéma	a cinema
une église	a church
un hôtel	a hotel
un marché	a market
un parc	a park
un restaurant	a restaurant
un stade	a stadium
une patinoire	an ice rink
une piscine	a swimming pool
des magasins	shops
des musées	museums
Il n'y a pas de	There isn't a There are no
Il n'y a pas de château / café.	There isn't a castle / a café.
Il n'y a pas d'église.	There isn't a church.

3. Les directior	s Directions
Pardon	Excuse me
Où est?	Where is?
Où sont?	Where are?

2. Les opinions	Opinions			5. Frequency			
Tu aimes ta ville / ton v	Do you like your town / village?			1 [d'habitude		
Je pense que		l think t	ha	t	1[normalement	
À mon avis		In my vi	ew	/	1[quelquefois	
C'est		lt's			1 [tous les	
bien		good				weekends	
super		great					
joli		pretty			11	6. Key words	
intéressant		interesting		1	assez	quite	
ennuyeux		boring		11	mais	but	
vraiment nul		really rubbish		1	ou	or	
trop petit		too sma			1	puis	then
J'aime ça.		I like tha	at.		1[très	very
J'adore ça.		I love th	at		1		
Tu es d'accord?		Do you agree?		1			
Oui, je suis d'accord.		Yes, I agree.		1			
Non, je ne suis pas d'accord.		No, I disagree.		1			
					_		
3. Les directions	Direction	าร		4. Où vas-tu le weeken	d?	Where d	o you g
C'est	lt's			Où vas-tu le weekend?		Where d	o you g
à gauche	left			Je vais		l go	

4. Où vas-tu le weekend?	Where do you go at the weekend?
Où vas-tu le weekend?	Where do you go at the weekend?
Je vais	l go
au café	to the café
au centre commercial	to the shopping centre
au stade	to the stadium
à la piscine	to the swimming pool
à la patinoire	to the ice rink
à l'église	to the church



7. Tu veux aller au café?	Do you want to go to the café?
Tu veux aller au café?	Do you want to go to the café?
Bonne idée!	Good idea!
Super!	Fabulous!
Génial!	Great!
D'accord.	OK.
Oui, c'est super top.	Yes, that's really great.
Oui, je veux bien.	Yes, I want to.
Non, je n'ai pas envie.	No, I don't want to.
Si tu veux.	lf you want to.
Non merci.	No, thanks.

8. Qu'est-ce qu'on peut faire à?	What can you do at/in?
On peut	We can
aller au concert	go to a concert
faire du bowling	go bowling
faire du roller	go roller-skating
faire du skate	go skateboarding
faire du vélo	go cycling
faire une promenade en barque	go on a boat trip
jouer au babyfoot et au flipper au café	play table football and pinball at the café
manger au restaurant	eat at a restaurant
visiter les jardins / les monuments / les musées	visit gardens, monuments, museums

9. aller – to go		
je vais	l go	
tu vas	you go (singular, informal)	
il/elle/on va	he/she goes/we go	
nous allons	we go	
vous allez	you go (plural, formal)	
ils/elles vont	they go	

10. pouvoir – to be able			
je peux	I can/am able		
tu peux	you can/are able (singular, informal)		
il/elle/on peut	he/she can/is able; we can/are able)		
nous pouvons	we can/are able		
vous pouvez	you can/are able (plural, formal)		
ils/elles peuvent	ent they can/are able		

au, à la, à l', aux

11. vouloir – to want		
je veux	l want	
tu veux	you want (singular, informal)	
il/elle/on veut	he/she wants/we want	
nous voulons	we want	
vous voulez	you want (plural, formal)	
ils/elles veulent	they want	

Knowledge Builder:

Click on the following links to practise grammar







Modal verbs

aller – to go

11. vouloir – to want		
je veux	l want	
tu veux	you want (singular, informal)	
il/elle/on veut	he/she wants/we want	
nous voulons	we want	
vous voulez	you want (plural, formal)	
ils/elles veulent	they want	



1. Les vacances en fa	3. Les verbe	
Tous les ans	Every year	Je me prépa
Normalement	Normally	Je me douc
nous allons	we go	Je me fais u
en France	to France	Je me parfu
en Espagne	to Spain	Je m'habille
en Grèce	to Greece	Je me bross
en Italie	to Italy	Je me lave l
aux États-Unis	to the USA	Je me regar
au Portugal	to Portugal	Je me rase.
à la mer	to the seaside	Je me maqu
à la montagne	to the mountains	
à la campagne	to the countryside	

2. les activités en vacances	Holiday activities
Nous allons au restaurant.	We go to a restaurant.
Nous visitons des monuments.	We visit monuments.
Nous faisons du camping.	We go camping.
Nous faisons de la rando.	We go hiking.
Nous faisons de la natation.	We go swimming.
Nous faisons des activités sportives.	We do sports activities.
Nous restons en France.	We stay in France.

erbes réfléchis		Reflexive verbs		
répare.		I get myself ready.		
ouche.		I have a shower.		
ais une	crête	2.	I make my hair spiky.	
arfume	2.		l put on perfu	me/aftershave.
bille.			I get dressed.	
rosse l	es ch	eveux.	I brush my ha	ir.
ave les	dents	5.	I clean my tee	th.
egarde	dans	a la glace.	I look in the m	nirror.
ase.			I shave.	
naquille	2.		I put on make-up.	
		4. Les non quarante	nbres	Numbers
ties	I	quarante-cing		45
nt.				50
5.		cinquante	-cinq	55
		soixante		60
		soixante-o	cinq	65
		soixante-dix		70
ies.		soixante-o	quinze	75
		quatre-vingts		80
		quatre-vingt-cinq		85
		quatre-vingt-dix		90
		quatre-vir	ngt-quinze	95

	5. Au café	At the café
	J'ai faim et soif.	I'm hungry and I'm thirsty.
	Vous désirez?	What would you like?
	Je voudrais	I'd like
	un café	a black coffee
	un café-crème	a white coffee
	un thé (au lait/au citron)	a tea (with milk/lemon)
	un chocolat chaud	a hot chocolate
	un coca	a cola
	un jus d'orange	an orange juice
	un Orangina	an Orangina
1	une limonade	a lemonade
	un sandwich au fromage	a cheese sandwich
	un sandwich au jambon	a ham sandwich
	un croquemonsieur	a toasted cheese and ham sandwich
	une crêpe	a pancake
	une glace (à la vanille/à la fraise/ au chocolat)	a (vanilla/strawberry /chocolate) ice-cream
	Tu as combien d'argent?	How much money have you got?
	J'ai dix euros cinquante.	l've got ten euros fifty (cents).



6. Qu'est-ce que tu vas faire?	What are you going to do?
Pendant les vacances	During the holidays
je vais	I'm going to
aller à la pêche	go fishing
danser	dance
faire de l'accrobranche	do treetop adventures
faire du karaoké	do karaoke
faire de la voile	go sailing
faire de la planche à voile	go windsurfing
nager dans la mer	swim in the sea
rester au lit	stay in bed
retrouver mes copains/copines	get together with my mates

9. The near future tense

You use the near future tense to talk about what is going to happen in the future. It is formed with part of the verb aller + an infinitive Je vais nager dans la mer.

I **am going to swim** in the sea.

Elle **va rester** au lit.

She i**s going to stay** in bed.

8. Key words	
d'abord	first
ensuite	then
puis	next
finalement	finally
quelquefois	sometimes

7. Quels sont tes rêves?	What are your dreams?
Je voudrais aller	I'd like to go
à Paris	to Paris
en Australie	to Australia
au Canada	to Canada
aux États-Unis	to the USA
Je voudrais	I'd like
être footballeur professionnel	to be a professional football player (masculine)
être danseuse professionnelle	to be a professional dancer (feminine)
habiter dans une grande maison	to live in a big house
avoir une voiture très cool	to have a really cool car
faire le tour du monde	to travel around the world
rencontrer mon acteur/mon actrice préféré(e)	to meet my favourite actor/actress
	1

10. faire – to do		
je fais	l do	
tu fais	you do (singular, informal)	
il/elle/on fait	he/she does/we do	
nous faisons	we do	
vous faites	you do (plural, formal)	
ils/elles font	they do	







practise grammar

Knowledge Builder:

Click on the following links to



The near future tense

Reflexive verbs

-er	verbs
-61	verus

Higher numbers



1. Feat	1. Features		
1.1	beach	An area of sand or small pebbles deposited by waves.	
1.2	bay	A smooth curve of coast between two headlands.	
1.3	headland	Land that juts out into the sea.	
1.4	cave	An area of cliff that has been eroded.	
1.5	arch	The curved structure left behind when a cave is eroded through a headland	
1.6	stack	A pillar left behind when an arch collapses.	
1.7	stump	The remains of an eroded stack.	
1.8	wave-cut platform	The flat rocky area left by the action of waves.	
1.9	spit	A strip of sand or shingle in the sea.	
1.10	salt marsh	A low-laying marshy area by the sea, with salty water from the tides.	
1.11	bar	Where a spit grows across a bay, a bar can eventually enclose the bay to create a lagoon.	

4. Coast	4. Coastal Defences		
4.1	sea wall	A wall to keep the sea out. They are often curved to reflect the waves away.	
4.2	groynes	These trap sand and stop it being carried away. Sand also absorbs some of the wave's energy.	
4.3	rip-rap (rock armour)	These are big rocks (sometimes in a cage). They soak up the wave's energy. They can be used to protect sea walls and cliffs.	
4.4	managed retreat	This is when the shore line is allowed to erode with the sea. But in a controlled way.	
4.5	beach nourishment	This is when extra sand is added to the beach to build it up.	

3. Proces	3. Processes		
3.1	erode	The wearing away of rocks, soil and stones by waves, rivers, wind and glaciers.	
3.2	transport	The carrying of material by rivers, sea and glaciers.	
3.3	deposit	To drop material that has been eroded.	
3.4	longshore drift	How sand and other materials is moved parallel to the coast.	
3.5	attrition	Rocks being carried by the river smash together and break into smaller, smoother and rounder particles.	
3.6	abrasion	Rocks carried along a river wear down the river bed and banks.	
3.7	hydraulic action	The process where breaking waves compress pockets of air in cracks in a cliff; the pressure may cause the crack to widen, breaking off rock.	
3.8	solution	Chemical erosion caused by the dissolving of rocks and minerals by sea water.	
3.9	backwash	Water that flows back towards the sea after the swash has moved up the beach.	
3.10	swash	The forward movement of a wave up a beach.	

4. Coastal Management			
4.1	constructive wave	A wave which deposits material on a coast line.	
4.2	destructive wave	A wave that removes material from a coast line.	
4.3	coastal management	The way that the coastline is managed to protect the land behind it.	









Coastal management





Coastal processes and landforms





а	Hard engineering	The construction of something artificial to protect a coastline from erosion	
b	Soft engineering	Making use of the natural processes in order to protect the coastline from erosion.	
С	Wave refraction	Wave energy is reduced in bays as the water gets shallower	
d	Rockfall	A fragment of rock breaks away from the cliff face, often due to freeze-thaw weathering	

Destructive waves

Stretch your vocabulary



Constructive waves









1.0 Musikarten	1.0 Music types	3.0 Other words to do with
Was für Musik hörst du	1.0 Music types3.0 Other words to do der Fan der Komponistin die Komponistin das Lieblingsstück das Lieblingsstück das Lieblingsstückhip-hopLiedtexteindie musicdie Rapperclassical musicder Sängerpop musicdie Sängerinrapder Sönggerman popsingentechnoder Songdie Sängerinsingenlike listening to pop music.aggressivlike listening to rock at all.like listening to rock hip-hop.Most of all I like listening to hip-hop.Knowledge builder: I more about Helene Germany's most fam "Schlager" singer he And listen to one of Songs Like it? Here are mo	der Fan
	1.0 Music types3.0 Other words to do with der Fan der KomponistWhat music do you like to listen to?der Fan der Komponistmusicdie Komponistintype of musicdas Lieblingsstückelectronic dance musicdas Lied Liedtextehip-hopLiedtexteindie musicder Rapperclassical musicder Sängerpop musicdie Sängerinrapder Sönggerman popsingentechnoder Songtechnodie Stimmea all.like listening to rock at all.I like listening to pop music.inspirierendI prefer listening to rap.schönMost of all I like playing tennis.Knowledge builder: Find more about Helene Fisch Germany's most famous "Schlager" singer here And listen to one of her Songs Like it? Here are more	
die Musik	music	die Komponistin
die Musikart	type of music	das Lieblingsstück
die elektronische Musik	electronic dance music	das Lied
der Hip-Hop	hip-hop	Liedtexte
der Indie	1.0 Music types3.0 Other words to do w der Fanisten to?der Komponistmusicder Komponisttype of musicdas Lieblingsstücke Musikelectronic dance musichip-hopLiedtexteindie musicdie Rapperlusikclassical musicpop musicder Sängerrock musicder SängerGerman popsingentechnoder Söngess preferencesdie Stimmeat all.aggressivhiz-hop.I like listening to pop music.I pop.I prefer listening to rap.sten Hip-Most of all I like playing tennis.ele ichMost of all I like playing tennis.eich Pizza.Most of all I like eating pizza.	
die klassische Musik	classical music	der Banner
der Pop	pop music	die Rapperin
der Rap	rap	der Sänger
der Rock	1.0 Music types3.0 Other words to do verticest duWhat music do you like to listen to?der Fan der Komponistmusicmusicdie Komponisttype of musicdas LieblingsstückAusikelectronic dance musicdas Lieblingsstückhip-hopLiedtextedie Melodieindie musicder Rapperindie musicder Sängerrapder Sängerrock musicdie SängerinGerman popsingentechnoder Songspreferencesdie Stimmeagrn Rock.I don't like listening to rock at all.I like listening to rap.schönMost of all I like playing tennis.Knowledge builder: F more about Helene F Germany's most famMost of all I like playing tennis.Most of all I like playing tennis.ch Pizza.Most of all I like eating pizza.	die Sängerin
der Schlager	German pop	singen
der Techno	Image: Instant sector of the	
2.0 How to express preference	S	die Stimme
Ich höre gar nicht gern Rock.	I don't like listening to rock	aggressiv
	at all.	hart
Ich höre gern Pop.	I like listening to pop music.	inspirierend
Ich höre lieber Rap.	I prefer listening to rap.	schön
lch höre am liebsten Hip- Hop.	Most of all I like listening to hip-hop.	Knowledge builder: Find
You can also start with "am liek	osten"	more about Helene Fisc
Am liebsten spiele ich Tennis.	Most of all I like playing tennis.	Germany's most famous "Schlager" singer <u>here</u> And listen to one of her
Am liebsten esse ich Pizza.	Most of all I like eating pizza.	songs Like it? Here are more

er words to do with music		4.0		
1	fan			Spi
nponist	compos	ser (male)		Ins
nponistin	compos	ser (female)		Ich
olingsstück	favourit	te piece (of music)		Ich
d	song			die
te	song lyı	rics		die
lodie	melody			das
oper	male ra	pper	-11	das
perin	female rapper		das	
iger	male si	nger		die
gerin	female	singer		5.0
	to sing			Ab
Ig	song		Vic	
nme	voice		Ku	
siv	aggress	ive		Vic
	harsh			bel
rend	inspirin	g		bei
	beautiful		Bilo	
				Fot
eage builder: Find about Helene Fisc	a out her,	Knowledge		ein
iny's most famous		read the new on		on

logo!

4.0 Instrumente	Instruments
Spielst du ein Instrument?	Do you play an instrument?
Ich bin nicht musikalisch.	I am not musical.
Ich spiele	I play
die Geige	violin
die Gitarre	guitar
das Klavier	piano
das Musikinstrument	musical instrument
das Schlagzeug	drums
die Trompete	trumpet
5.0 Stars und Trends	Stars and trends
Abonneenten (pl)	subscribers
Videoproduzent(in)	video producer (m/f)
Kurzfilme	short films
Videos	videos
beliebt	popular
berühmt	famous
Bilder teilen	to share photos
Fotos liken	to like photos
ein Handy haben	to have a mobile phone
online sein	to be online
Selfies machen	to take selfies
Videoclips sehen	to watch video clips
soziale Medien	social media

Knowledge Base/Builder: German

6.0 die Kunst - art		
malen	To paint	
Der/die Künstler/in	Artist	
Was siehst du auf dem Bild?	What do you see in the picture?	
Auf dem Bild sehe ich	In the picture, I see	
Ich finde das Bild	I find that picture	
interessant	interesting	
toll	great	
kindlich	childish	
langweilig	boring	
Es gefällt mir	I like it	
Ich mag	I like	
Die Farben	The colours	
Die coolen Formen	The cool shapes	
Es ist inspirierend	It is inspiring	
Es gefällt mir gar nicht	I don't like it at all	
Es ist hart/aggressiv	It is severe/aggressive	
modern/altmodisch	Modern/old fashioned	

7.1 Regular present tense verbs		
arbeiten	To work	
machen	To make/do	
gehen	To go	
finden	To find	
kommen	To come	
sagen	To say	
trinken	To drink	

To understand

To learn

Verbs and tenses

7.2 Forming the present tenseVerb – en + ending = present conjugationich lerneI learndu lernstYou learner/sie/es lerntHe/she/it learnswir lernenWe learnihr lerntYou (group) learnSie/sie lernenYou (polite)/they learn

7.3 In German, the verb always comes second

e.g. Ich spiele Rugby.

verstehen

lernen

Manchmal spiele ich Rugby.

In the past tense, the part of haben or sein comes second

e.g. Ich habe Rugby gespielt.

Gestern habe ich Rugby gespielt.

Year 7 | Summer Term 2



8.1 The past (perfect) tense

1. Subject

- 2. Present tense form of haben or sein (the auxiliary)
- 3. Other info
- 4. Past participle at the end of the sentence

Regular (weak) past participles:

- Take the -en off the end
- Put '<mark>ge</mark>' at the start
- Replace the -en with a -t
- e.g. spielen -> <mark>ge</mark>spiel<mark>t</mark>

Strong past participles:

- Add 'ge' at the start of the verb
- Ending stays the same
- e.g. essen -> <mark>ge</mark>gessen

8.2 Forming the past (perfect) tense		
Subject + auxiliary + past participle		
ich	habe	gespielt
du	hast	gespielt
er/sie/es	hat	gespielt
wir	haben	gespielt
ihr	habt	gespielt
Sie/sie	haben	gespielt

Learn more about the present tense here:



Learn more about the

perfect tense here:

33

Knowledge Base: German

Schule (School) part 1

Year 7 | Summer Term 1



9.0 Schule	School
das Fach	subject
das Schulfach	school subject
lernen	to learn / study
die (Mittags)pause	(lunch) break
die Stunde	lesson
der Stundenplan	timetable
Was hast du am Montag?	What do you have on Monday?
Ich gehe in die siebte Klasse	I am in Year 7





Knowledge builder: Watch read the new o

11.0 Schulfächer	School subjects
Mathe(matik)	maths
Englisch	English
Naturwissenschaften	Science
Biologie	Biology
Chemie	Chemistry
Physik	Physics
Erdkunde	Geography
Geschichte	History
Religion	Religious Studies
Informatik	Computing
Theater	Drama
Kunst	Art
Musik	Music
Sport	PE
Deutsch	German
Französisch	French
Italienisch	Italian
Spanisch	Spanish
Latein	Latin
Fremdsprachen	foreign languages
Versammlung	Assembly
Sozialkunde	PSHE
Kochen	Cookery
Werken	Technology

12.0 Es macht Spaß!	It is fun!
Ich bin stark in	l am good at
Ich bin schwach in	I am bad at
Deutsch interessiert mich.	German interests me.
Fremdsprachen interessieren mich.	Languages interest me.
Mir gefällt Mathe.	I like Maths.
Mir gefallen Kunst und Sport.	I like Art and PE
13.0 Adjektive	adjectives
total	totally
voll	really
anstrengend	tiring
ätzend	awful
bescheuert	stupid
einfach	easy
interessant	interesting
langweilig	boring
nervig	annoying
nützlich	useful
praktisch	practical
prima	great
schrecklich	awful
schwierig	difficult
spannend	exciting
unwichtig	(un)important

How did storytelling shape the ancient and medieval worlds? c.2285 BCE to 1500 CE



1. Core knowledge: Substantive (what happened in the past)		
1.1	Dynasty	A royal house (ruling family) who pass down power through the generations.
1.2	Propaganda	Choosing what information to share your audience in order to persuade people.
1.3	Golden Age	A period of time when a country or society goes through exciting and rapid changes.
1.4	Queenship	Being a queen. This could be as a consort to the husband (king), or a ruler in her own right.
1.5	Minster	A cathedral that is part of a monastery, a closed religious community for monks and nuns.
1.6	Cathedral	A large and important church with a bishop's throne (a cathedra).
1.7	Great Hall	13 th century building and all that is left of Winchester Castle, with King Arthur's Round Table.
1.8	Statue	A sculpture of a person, such as King Alfred the Great of Wessex.

3. This Term's Enquiry Questions		
1485 CE – 1509 CE	Why did a Welsh nobleman use histories to establish a royal dynasty in England?	
1430 CE – 1504 CE	Why are Margaret of Anjou and Isabella of Castile remembered so differently?	
c.750 BCE – today	What's the story behind Winchester's landscape and landmarks?	



2. Core knowledge: Disciplinary (how historians think)		
2.1	Causes	Reasons (sometimes called factors) that made something happen in the past.
2.2	Significance	When an event or person from the past is seen as important and making a difference.
2.3	Chronology	The sequence of dates and events in the past, in the order that they happened.
2.4	Middle Ages	The medieval period (The Tudors called it the Middle Ages to make themselves look good).





Knowledge Builder: History

How did storytelling shape the ancient and medieval worlds? c.2285 BCE to 1500 CE





British History's Biggest Fibs With Lucy Worsley Episode 1 War of the Roses (BBC Documentary)





History Extra Podcast:

Everything you wanted to know about the Wars of the Roses



	This Term's Enquiry Questions	
	1485 CE – 1509 CE	Why did a Welsh nobleman use histories to establish a royal dynasty in England?
	1430 CE – 1504 CE	Why are Margaret of Anjou and Isabella of Castile remembered so differently?
	c.750 BCE – today	What's the story behind Winchester's landscape and landmarks?

Character features in:





Relevant Philippa Gregory books featuring Margaret of Anjou



https://www.medievalwomen.org/isabella-i-of-castile.html Website run by academics designed to highlight untold stories of Medieval women


Knowledge Base: Italian

In città



Luoghi	in città	Places in town
1.1	cosa c'è nella tua città?	what is there in your town?
1.2	nella mia città	in my town
1.3	there is	c'è
1.4	there are	ci sono
1.5	un bar	a bar
1.6	un ristorante	a restaurant
1.7	un duomo	a cathedral
1.8	un ospedale	a hospital
1.9	un mercato	a market
1.10	un cinema	a cinema
1.11	un parcheggio	a car-park
1.12	un parco	a park
1.13	un semaforo	a traffic-light
1.14	uno stadio	a stadium
1.15	una stazione	a (train) station
1.16	una piscina	a swimming pool
1.17	una scuola	a school
1.18	una chiesa	a church
1.19	una palestra	a gym
1.20	una banca	a bank
1.21	una piazza	a square



ConversazioneConversation2.1dove vai?where are you going?2.2vadoI go2.3al parcoto the park2.4alla stazioneto the station2.5allo stadioto the stadium2.6ai negozito the shops2.7a casahome2.8e tu?and you?Le direzioni3.1scusi, dov'è?3.2il parcothe park3.3la stazionethe stadium3.4lo stadiothe stadium3.5èis/it is/he is/she is	Conversazione2.1dove vai?2.2vado2.3al parco2.4alla stazione2.5allo stadio	Conversation where are you going? I go to the park to the station
2.1dove vai?where are you going?2.2vadoI go2.3al parcoto the park2.4alla stazioneto the station2.5allo stadioto the stadium2.6ai negozito the shops2.7a casahome2.8e tu?and you?Directions3.1scusi, dov'è?3.2il parcothe park3.3la stazionethe stadium3.4lo stadiothe stadium3.5èis/it is/he is/she is	 2.1 dove vai? 2.2 vado 2.3 al parco 2.4 alla stazione 2.5 allo stadio 	where are you going? I go to the park to the station
2.2vadoI go2.3al parcoto the park2.4alla stazioneto the station2.5allo stadioto the stadium2.6ai negozito the shops2.7a casahome2.8e tu?and you?Le direzioni3.1scusi, dov'è?3.2il parcothe park3.3la stazionethe station3.4lo stadiothe stadium3.5èis/it is/he is/she is	2.2 vado2.3 al parco2.4 alla stazione2.5 allo stadio	l go to the park to the station
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3.2il parcothe park3.3la stazionethe station3.4lo stadiothe stadium3.5èis/it is/he is/she is	3.1 scusi, dov'è?	excuse me, where is?
3.3la stazionethe station3.4lo stadiothe stadium3.5èis/it is/he is/she is	3.2 il parco	the park
3.4lo stadiothe stadium3.5èis/it is/he is/she is	3.3 la stazione	the station
3.5 è is/it is/he is/she is	3.4 lo stadio	the stadium
	3.5 è	is/it is/he is/she is
3.6 a destra to the right	3.6 a destra	to the right
3.7 a sinistra to the left	3.7 a sinistra	to the left
3.8 tutto dritto straight ahead	3.8 tutto dritto	straight ahead
3.9 la prima a destra the first on the right	3.9 la prima a destra	the first on the right
3.10 la seconda the second	3.10 la seconda	the second
3.11 deve andare you must go	3.11 deve andare	you must go
3.12 deve girare you must turn	3.12 deve girare	you must turn
3.13 deve attraversare you must cross		vou must cross

verbi EF	RE	ERE verbs
4.1	chiedere	to ask
4.2	chiudere	to close
4.3	leggere	to read
4.4	prendere	to take
4.5	ricevere	to receive
4.6	ridere	to laugh
4.7	scrivere	to write
4.8	vedere	to see
4.9	vivere	to live
4.10	piangere	to cry
4.11	scegliere	to choose
4.12	perdere	to lose
4.13	bere	to drink
4.14	promettere	to promise

Il presente Forming the present		
5.1	vivo	l live
5.2	vivo	you live
5.3	vive	he/she lives
5.4	viviamo	we live
5.5	vivete	you lot live
5.6	vivono	they live
5.7	dove vivi?	where do you live?



Mangia	re e bere	Eating and drinking
1.1	mangio	l eat
1.2	bevo	l drink
1.3	la prima colazione	breakfast
1.4	ll pranzo	lunch
1.5	la cena	dinner
1.6	Il dolce	pudding
1.7	la merenda	snack
1.8	dolce	sweet
1.9	salato	savoury

Le bibite	2	Drinks
2.1	un espresso	a small black coffee
2.2	un cappuccino	a milky coffee
2.3	un té	tea
2.4	un succo di frutta	a fruit juice
2.5	un bicchiere di latte	a glass of milk
2.6	un'aranciata	a fizzy orange juice
2.7	un'acqua minerale	a mineral water
2.8	una cioccolata calda	a hot chocolate
2.9	una limonata	a lemonade
2.10	un frullato	a milkshake

Al mero	cato	At the market
3.1	un chilo do	a kg of
3.2	mezzo chilo di	½ Kg of
3.3	un etto di	100 g of
3.4	due chili di	2 kg of
3.5	un pacchetto di	a packet of
3.6	un vaso di	a jar of
3.7	una bottiglia di	a bottle of
3.8	un pezzo di	a piece of
3.9	una fetta di	a slice of
3.10	una scatola di	a box of

La frutta Frui		Fruit
4.1	le pere	pears
4.2	le mele	apples
4.3	le banane	bananas
4.4	le pesche	peaches
4.5	l'uva	grapes
4.6	Il melone	melon
4.7	l'anguria	watermelon
4.8	le arance	oranges
4.9	le fragole	strawberries



Le tagl	ie	Sizes
5.1	di taglia piccola	small size
5.2	di taglia media	medium size
5.3	di taglia grande	large size

La ver	dura	Vegetables
6.1	i pomodori	tomatoes
6.2	le cipolle	onions
6.3	le carote	carrots
6.4	gli zucchini	courgettes
6.5	le patate	potatoes
6.6	i piselli	peas
6.7	l'insalata	salad
6.8	i funghi	mushrooms
6.9	le melanzane	aubergines
6.10	i peperoni	peppers

Al sup	ermercato A	t the supermarket
7.1	Il formaggio	cheese
7.2	la carne	meat
7.3	i biscotti	biscuits
7.4	la zuppa	soup
7.5	ll pane	bread
7.6	Il burro	butter
7.7	le uova	eggs

Knowledge Builder: Italian In Città | Year 7 Summer Term 1

Knowledge Builder: Italian Si mangia! | Year 7 Summer Term 2









More directions









Listen to the Italian and look at the subtitles and note interesting vocabulary





Si mangia Have a look at this page and find out lots more info about eating in Italy





More amazing words about food to copy up into your vocab book





Using Quizlet is a great way to learn vocabulary





Using Quizlet is a great way to learn vocabulary.



Vocab revision



Watch this video for more help on how to ask for understand directions in Italian. Practise saying the words with the video so that you can improve your pronunciation

angle

Language

Example

90° is a quarter turn or right



By the end of this module you should be able to:-

- Recognise and name the different types of angle
- Measure and draw angles to the nearest degree
- Accurately draw shapes with a ruler and protractor
- U
- Ν
- now the properties of quadrilaterals

Important things to remember:-

- A full turn is 360° 1)
- 2) A half turn or straight line is 180°
- 3) A quarter turn or right angle is 90°
- The angles in a triangle always add to 180° 4)
- The angles in a guadrilateral always add to 360° 5)
- Use the right scale on your protractor (see below) 6)

 $\angle AOC = 60^{\circ}$ ∠ BOC = 120°





Link to Kings' Maths Resources



Year 7 Mathematics **Curriculum Overview** and Revision Support



Links, Lessons and Practice Questions for this topic

couracely draw shapes with a ruler and protractor
se angle facts
now the different types of triangle and their angles
ame the different types of quadrilateral
now the properties of quadrilaterals

degrees	angle
Less than 90° from 90° to 180° From 180° to 360°	This triangle contains two acute and one obtuse angle
A 2D shape with 3 straight sides and 3 angles	A triangle with a angles of 60° is
All equal angles 2 equal angles No equal angles	60° 60° angles of oo is equilateral
Lines which are always the same distance apart	Perpendicular Parallel
Lines which meet at right angles	
A 2D shape with 4 straight sides and 4 angles	Rectangle, square, rhombus parallelogram, trapezium, kite, arrowhead
A 2D shape with 3 or more sides	Pentagons (5), hexagons (6) and octagons (8) are all examples
	degreesLess than 90° from 90° to 180° From 180° to 360°A 2D shape with 3 straight sides and 3 anglesAll equal angles 2 equal angles No equal anglesLines which are always the same distance apartLines which meet at right anglesA 2D shape with 4 straight sides and 4 anglesA 2D shape with 3 or more sides

Meaning

A measure of turn, given in



By the end of this module you should be able to:-

- □ Write a proportion as a fraction or a percentage
- □ Increase or decrease 2 quantities using direct proportion
- □ Solve problems using direct proportion
- □ The unitary method of proportion
- □ Simplify a ratio
- Understand and use the relationship between ratio and proportion

Important things to remember:-

- 1) **Ratio** compares the size of the parts
- 2) **Proportion** compares the size of a part with the whole

This is the national flag of Nigeria.





Link to Kings' Maths Resources



Year 7 Mathematics Curriculum Overview and Revision Support



Links, Lessons and Practice Questions for this topic

Language	Meaning	Example
proportion	Compares a part to the whole and can be written as a fraction	
ratio	Compares 2 or more parts. You write a ratio using a colon :	Proportion of red is $\frac{8}{20} = \frac{2}{5}$ Ratio of red to blue is 8 : 12 = 2 : 3
direct proportion	Two quantities that increase or decrease by the same proportion	7 music downloads cost £6.23. To work out the cost of 5 downloads $\div 7$ (7 downloads = £6.23) $\div 7$ $\times 5$ (1 download = £0.89) $\times 5$ 5 downloads = £4.45) $\times 5$
unitary method	The method of dividing into a given ratio or proportion using the value of one equal share	150g of cereal is £2.25 1g is £0.015 (divide by 150) 700g is £10.50 (multiply by 700)

Language

expression

2x + 3y

Example



By the end of this module you should be

able to:-

- Simplify an expression
- Use a formula
- Write a formula
- Work with real world formulae
- Solve an equation by adding or subtract

Important things to remember:-

- E and e are not the same! Use the lett 1) you have been given in a formula
- You can often check if your answer is 2) by substituting back into the original ed of formula
- The inverse of addition is subtraction 3)
- 4) The inverse of multiplication is division
- 5) The inverse of square is square root





Link to Kings' Maths Resources



inverse

operation

Year 7 Mathematics **Curriculum Overview** and Revision Support

solution



Links, Lessons and Practice Questions for this topic

Multiplying and dividing are inverse

operations. When you multiply by 5 you can undo this by dividing by 5

Gives $2 \times 3 + 1 = 7$

			operations but not including an equal's sign	
		term	Part of an expression between plus or minus signs	In the example above 2x and 3y are terms
ting		formula	An algebraic statement that connects things (plural formulae)	d = s x t Distance = speed x time
0		equation	An expression equal to a number or another expression	x + 3 = 11 2x - 6 = x + 3
ers		solve	To find the value of an unknown in equation that makes it true	lf x = 5 = 12 Then x = 7
correct quation		solution	The value(s) of the unknown that the equation is true for	x = 7 is the only solution equation
		substitution	A method for checking if your solution to an equation is correct	Substituting x = 3 Into 2x + 1

Meaning

Made from numbers letters and

by replacing the unknown with the

The mathematical operation that

undoes an operation

only solution in the above

Topic 12: Symmetry

transformation

transformation

Meaning

The object is the shape before the

The image is the shape after the

A corner of a 2 dimensional shape

A change in the position or size of a

object through a given angle about a

shape that follows set rules

given centre of rotation

object over a mirror line

A transformation which

slides/moves an object

A transformation that turns an

A transformation which flips an

Another name for a power such as

'squared' or 'to the power of 5'

expression with a number

any gaps

To replace a letter in an algebraic

A tiling pattern that doesn't have

Language

transformation

object

image

vertex

rotation

reflection

translation

reflective

symmetry

rotation

symmetry

tessellation

Example

Reflections, rotations and translations are all

Turning this page through 90° clockwise about

Looking at this page in a mirror is a reflection

A rectangle has reflective symmetry in both the

horizontal and vertical lines through its centre

A rectangle has rotational symmetry of order 2

its bottom right corner is a rotation

Sliding this page across the table is a

A square has 4 vertices

transformations

translation

about its centre

parallelograms

A tessellation made from

Object

Image



By the end of this module you

should be able to:-

- Find the order of rotational symmetry
- Reflect a shape
- □ Find the line of reflection
- Rotate a shape
- Translate a shape
- □ Know why shapes tessellate
- Tessellate a shape

Important things to remember:-

- Don't say 'mirrored' say reflected. Provide the equation of the line of reflection
- 2) Don't say 'turned' say **rotated** and provide the angle, direction and centre of rotation
- Don't say 'moved' say translated and provide the vector



Link to Kings' Maths Resources



Year 7 Mathematics Curriculum Overview and Revision Support



Links, Lessons and Practice Questions for this topic



Year 7 focuses on how Music uses *patterns, textures and structures.*

1. Elei	1. Elements of Music				
1.1	pitch	The position of a single sound in the complete range of sound. <i>High / low</i>			
1.2	tempo	The pace of the music. <i>Fast / Slow</i>			
1.3	texture	Describes how layers of sound within a piece of music interact. <i>Thick / thin</i>			
1.4	timbre	The quality of tone distinctive to a particular voice or instrument. <i>Example: bright, mellow</i>			
1.5	dynamics	The variation in loudness between notes or phrases. Loud / Soft (piano, forte, crescendo, diminuendo)			
1.6	duration	The length of a note or series of notes. Long / Short			
1.7	silence	No noise. This can create tension in music.			
1.8	melody	A melody is a succession of pitches in rhythm.			
1.9	rhythm	A rhythm is a pattern of sounds of different lengths.			

3. Note lengths					
	ITEM	NOTE	REST	VALUE (number of beats)	
	Whole note/rest	0	-	4	
	Half note/rest	_		2	
	Quarter note/rest	•	\$	1	
	Eighth note/rest	5	7	1/2	
	Sixteenth note/rest	1	7	1/4	



2. Notes on the keyboard			
C# D#	G [#] A [#] B [#]	C# D#	G [#] A [#] B [#] F [#] G [#] A [#]
CDE	F G A B	C D E	F G A B

UNIT 5: Fanfares & UNIT 6: Hall of Fame



5. Fa	5. Fanfares			7. Early Musical Periods		
5.1	Fanfare	A short ceremonial melody or flourish played on brass instruments, typically to introduce something or someone important.	7.1	Renaissance Period	Composers: Thomas Tallis, William Byrd, Claudio Monteverdi	
5.2	Triplets	A three-note pattern that fills the duration of a typical two-note pattern. Each note in a triplet has equal rhythmic value.		1400-1600	Instruments: Lutes, Virginals	
5.3	Harmonic Early trumpets and other brass instruments were only able Series to play certain notes - these notes were known as the 'Harmonic Series'. Trumpets then had valves added so that they could play cell the potes of a ceals and not inst these in the					
		harmonic series.	7.2	Baroque Period	Composers: Vivaldi, Bach, Handel	
5.4	Valves	The trumpet has 3 valves that alter the pitch within a harmonic series of the instrument. This is due to each valve having a different length of tubing		1600 - 1750	Instruments: Baroque trumpet, Organ, String instruments	
5.5	Dotted rhythms	A rhythm using longer notes alternating with shorter notes. $J_{-} = J_{-} + J_{-}$				
			7.3	Classical	Composers: Mozart, Haydn, Beethoven	
		$\mathbf{J}_{\mathbf{n}} = \mathbf{J} + \mathbf{J} + \mathbf{J}$		Period 1750 - 1830	Instruments: Piano, Clarinet, growth of orchestra	

Knowledge Builder: Music

UNIT 5: Fanfares & UNIT 6: Hall of Fame





Listen







B B C

Jameela Jamil on

"Fanfare for the

Aaron Copland.

Read



What is a Fanfare? Introduction to Common Man", by Fanfares





Introduction to the **Renaissance Period**

Introduction to the **Baroque Period**

Introduction to the **Classical Period**

Watch









TASK: In Bandlab, compose a Fanfare for multiple trumpets that uses dotted rhythms, triplets and straight rhythmic patterns (e.g. straight quavers and semiquavers). Compose with a range of textures.









TASK: Create a presentation about the changes that took place musically between each musical period.



1. Being Safe			
1.1	permission	Allowing someone to do a particular thing: giving consent.	
1.2	inappropriate	Not suitable to do or say something.	
1.3	abuse	To wilfully treat someone/something cruelly: including mentally or physically.	
1.4	safe	Being protected from danger or risk.	
1.5	responsible adult	An adult you can trust. Possibly a parent, teacher, grandparent, police or welfare officer.	
1.6	personal boundaries	Limits that we set ourselves, that make us feel safe. Each person has a different set of boundaries, depending on our relationships.	
3. Loca	3. Local Government		
3.1	community	People living in and/or sharing the same space.	
3.2	local councillor	Responsible for a specific community in which people live. They address their needs and highlight these to the City Council or Borough Council.	
3.3	national government	A group of people who govern/run/look after the whole country.	
3.4	public services	Services available which include healthcare, schools, waste management, police and recreational spaces.	
3.5	taxes	Paying money to the government, in order to contribute to the needs of the country. Local councils also collect taxes, to fund the needs of its community.	
3.6	democracy	A form of government, invested in the people. In the UK, those over 18 years old can have a say in how the government is run. They do this by voting.	

2. Qu	uestions about being safe				
2.1	Who do I speak to if I don't feel safe?				
	Speak to a trusted adult as soon as you can. This could be at school or at home. They will listen to you and offer some help. It is not OK to feel unsafe. You can also phone ChildLine 0800 1111 or the police.				
2.2	What do I do if I am worried about a friend?	renu vectoren.			
	Speak to your friend. They might want someone to talk to. Speak to a trusted adult if you are worried about their well-being or safety.				
2.3	What words could I use to show someone I am uncomfortable in a situation?				
	No! Stop! Please don't, I'm going to tell,WinchesterI don't want to. That makes me feelCouncil				
4. Qu	estions about your community				
4.1	How could I help my local community?				
	Think what your community is missing. This could be a sa better recreational facilities or tidier streets. You could w councillor with some suggestions or form a petition to pr your community needs.	ifer footpath, some write to your local rove that it is what			
4.2	How do people pay taxes?				
	Most tax is paid to HMRC (His Majesty's Revenues and Customs). Tax is collected each time a person gets paid by their workplace, each time you buy goods and by businesses paying a percentage of the money they make.				
4.3	Who can vote in elections?				
	To be able to vote in the United Kingdom, you have to be older, be registered to vote; be either a British citizen or, Commonwealth citizen or a citizen of the Republic of Irel subject to any legal incapacity to vote.	e aged 18 years or , qualifying and; and not be			



1. W	1. What is the Jewish identity?			
1.1	identity	Characteristics a person has that distinguishes them from others		
1.2	Haredi	Strictly Orthodox Jews		
1.3	Orthodox	The more strict Jewish belief, following the "letter of the law". Haredi Jews are a particularly strict denomination of Orthodox Jews		
1.4	Reform Jews	The more modern and liberal Jewish belief, following the "spirit of the law		
1.5	secular Jews	A secular Jew is someone who identifies as Jewish on the basis of parentage, culture, heritage, or ethnicity rather than through the practice of Judaism as a religion		
1.6	parentage	Who your parents are. Jewish identity traditionally passed through the mother's line		
1.7	heritage	Handed down from the past including history and traditions		
1.8	religion	Beliefs and practices lived out in communities		
1.9	culture	The way people live and express themselves such as customs, beliefs and values		
1.10	ethnicity	A social group with a shared culture, ancestry, language or traditions		

3. Ho	3. How do Jews keep the covenant?			
3.1	monotheism	The belief in one God – Yahweh/Adonai/Elohim		
3.2	the Shema	The statement of belief in the One God found in Jewish religious texts – the Tanakh, Torah and Talmud		
3.3	keeping the covenant	The main requirement for all Jews since Abraham and Moses, built into their religious laws and beliefs		
3.4	Torah	The first 5 books of the Tanakh-the Jewish Bible. The books of the law		
3.5	mitzvot	Laws, commandments (singular mitzvah)		
3.6	tefillin	Two boxes worn during prayer, which contain verses from the Torah		
3.7	kippah	A head covering worn during prayer		
3.8	tallit	A symbolic shawl worn during prayer		
3.9	mezuzah	A box attached to doorposts in Jewish homes, containing the Shema		
3.10	circumcision	The physical sign for males to show they are part of the covenant. Brit Milah is the ceremony for circumcision for 6 day old baby boys		

2. W	/hat is the story	of the Jews?
2.1	Abraham	One of the Patriarchs, founders of Judaism
2.2	Promised Land	The homeland promised to Abraham and his followers
2.3	covenant	The agreement between God and Abraham, and then Moses, to found and establish Judaism
2.4	empire	A group of countries controlled by one ruler or government. In the case of Israel this happened several times most noticeably the Babylonians and the Romans
2.5	exile	To expel or bar someone from their country
2.6	persecution	Being punished or discriminated against for what you believe
2.7	diaspora	The dispersion of the Jewish people beyond Israel, particularly during the times of the Romans.
2.8	Sephardim	The group of Jews taken in exile to Babylon, 586BCE and who eventually settled in Spain and Portugal
2.9	Ashkenazim	Jews who stayed behind after the first Exile and then left Israel when the Romans exiled all Jews in 130CE. They settled in Eastern Europe. They make up 80% of the Jews in the world

4. Ho	4. How do different Jews interpret the mitzvot?				
4.1	Sabbath	Shabbat/Rest day, remembering God's day of rest after 6 day of creation			
4.2	kashrut	The food laws, written out in the Torah			
4.3	kosher	Fit for purpose, acceptable, allowed			
4.4	parve/pareve	Neutral foods, can be eaten with anything			
4.5	treif	Forbidden foods under the terms of the Kashrut			
4.6	shechitah	Kosher slaughter, ensuring the meat is fit for consumption			
4.7	meat and dairy	<i>"You shall not boil a young goat in its mother's milk."</i> Exodus			
4.8	Leviticus 11	Verses from the Torah to explain kosher and non-kosher food			

An introduction to Judaism



5. Di	5. Did the Jews lose their identity during the Holocaust?						
5.1	tradition	Customs or beliefs passed down through the generations					
5.2	antisemitism	Hatred of Jews					
5.3	prejudice	Pre-judging people, disliking someone for what they believe in, or what "race" they are, stereotyping them					
5.4	scapegoat	Blaming someone or a group of people for something they did not do					
5.5	Holocaust / "Shoah"	The murder in Europe of 10m people from 1933-45/"Catastrophe"					
5.6	Nuremberg laws	Laws enacted by the Nazi state to take away the identity of the Jews and their citizenship					





What is the Shema?



B B C BITESIZE

Judaism today



How did the

Covenant

first come

about?



B B C BITESIZE

The Sabbath from a young person's perspective



Books to read



Argument words						
using evidence	for example, indicated by					
developing arguments	additionally, furthermore, moreover, as well, thus, due to this, therefore					
contrasting	nevertheless, conversely, however					
showing limitation	although, yet					
most important crucial, vital, fundamental						
making judgements	In conclusion, overall, in summation					





1. Safety in the Lab						
1.1	What is a ł	nazard?	Something that can cause you harm			
1.2	What is ris	k?	How likely a hazard will cause harm			
1.3	What is a p	precaution?	A control measure we can put in place either to reduce the risk or the severity of the hazard			
1.4	Give three precautior can be tak	examples of as that en in the lab	Use safety goggles, ensure bags are clear from the floor, tie hair back			
1.5	What is th label on a us a substa harm?	e name for a bottle that tells ance could cause	Hazard symbol			
Give	the meaning	g and typical hazard	d associated with the following hazard symbols			
1.6		Moderate health hazard – causes skin irritation				
1.7		Serious health hazard – causes breathing difficulties				
1.8		Toxic – could cau	use death if swallowed or inhaled			
1.9	(All and a second secon	Corrosive – damages skin and clothing				
1.10		Flammable – catches fire easily				
1.11		Oxidising – makes flammable substances burn more fiercely				
1.12		Harmful to the environment – could cause damage to animal and plant life				

2. Sa	afety in the Lab		
2.1	2.1 What are the 10 basic rules of working in a Science lab?	1.	Do not enter the lab without permission
		2.	Dress for practical work (hair tied back and ties tucked in)
		3.	Follow instructions from the person in charge
		4.	Make sure your working area is safe (bags and coats tucked under benches)
			Never run in the lab
			Don't eat or drink in the lab
		7.	Do not taste or sniff chemicals
		8.	Never leave an unattended Bunsen burner on a blue flame
			Do not touch the electrical sockets without permission
		10.	In the case of accidents, tell an adult



Scientific Equipment

What is the drawing and purpose for the following pieces of scientific equipment?

Equipment	Drawing	Purpose	Equipment	Drawing	Purpose
test tube		Mixing chemicals to observe chemical reactions	thermometer		Measuring the temperature in °C
boiling tube		Heating chemicals to observe chemical reactions	stirring rod		Stirring chemicals to speed up dissolving or a chemical reaction
test tube rack		For safely holding test tubes and boiling tubes	pipette		For transferring very small volumes of liquid from one container to another
clamp stand		To support other pieces of equipment and glassware	tripod		Safely supporting objects above a Bunsen burner
clamp		To support other pieces of equipment and glassware	evaporating dish		For the evaporation of solutions
beaker		For holding larger volumes of liquid	Bunsen burner	НЕАТ	To heat up substances or objects
			gauze		Safely supporting objects above a Bunsen burner and to spread the heat
conical flask		To contain or mix liquids	measuring		For accurately measuring volumes of liquid
spatula		For transferring small quantities of solid from one	cylinder		
		container to another	heatproof mat		Protecting the bench and safely storing hot objects



3. Bun	sen Burner		4. Scie	4. Scientific Experiments				
3.1	What are the missing labels from the Bunsen burner?	Flame (outer cone)	4.1	What is the aim of a scientific investigation?	To answer a Scientific question			
		Sarrel or chimney	4.2	What is a variable?	Anything that can change during a Scientific investigation			
		Air Collar (air regulator)	4.3	What is the independent variable in an investigation?	The factor that you change			
3.2	What are the five steps for safely lighting a Bunsen burner?	Rubber tubing Base 1. Place a Bunsen burner on a heat- resistant mat	4.4	What is the dependent variable in an investigation?	The factor that you measure (as a result of marking the change)			
		 Turn the collar to ensure the air hole of the Bunsen burner is closed. Hold a lit splint 1-2 cm above the 	4.5	What are the control variables in an investigation?	The factors you keep the same to ensure a fair test			
		 top of the barrel of the burner. 4. Turn on the gas at the gas tap, and the Bunsen burner will burn with a yellow flame. 5. Extinguish the splint by placing it on 	4.6	What is a fair test?	An investigation in which only one factor is changed and all other factors are kept the same			
		the heat-resistant mat (do not blow it)	4.7	What is data?	The measurements you make in an investigation			
3.3	Name three safety precautions that should be taken when using a Bunsen burner	Tie your hair back, tuck your tie in, wear safety goggles	4.8	What is meant by accurate data?	Data that is close to the true value of what you are trying to measure			
3.4	What colour will the of the Bunsen burner be when it is first lit?	Yellow	4.9	What is meant by precise data?	Data which gives similar results if you repeat the measurement, the spread of data is small			
3.5	Why is the yellow flame of the Bunsen burner referred to as the	It is easier to see and less hot than the blue flame	4.10	How can data be recorded?	In a table			
3.6	safety flame? How can you change the colour of	By twisting the collar which opens and	4.11	When should a mean be calculated?	If repeats of measurements are taken			
	the flamer on a Bunsen burner?	closes the air hole	1 12	How do you calculate the mean?	By adding all the numbers together and			
3.7	Which flame of the Bunsen burner should be used for heating?	The blue flame as it is much hotter	4.12		dividing by the number of repeats you took			
I								

Knowledge Base: Science					Refer	ence T	ool: Th	e Perio	odic Ta	ble		Ye	ar 7 \$	Summ	er Tern		
1	2											3	4	5	6	7	0
				Кеу			1 H hydrogen 1										4 He ^{helium} 2
7 Li	9 Be		relativ	ve atomi	ic mass mbol							11 B	12 C	14 N	16 O	19 F	20 Ne
lithium 3	beryllium 4		atomic	_{name} (proton) numbe	r						boron 5	carbon 6	nitrogen 7	oxygen 8	fluorine 9	neon 10
23 Na	24 Mg					_						27 Al	28 Si	31 P	32 S	35.5 Cl	40 Ar
sodium 11	magnesium 12							_				aluminium 13	silicon 14	phosphorus 15	^{sulfur}	chlorine 17	argon 18
39 K	40 Ca	45 Sc	48 Ti	51 V	52 Cr	55 Mn	56 Fe	59 Co	59 Ni	63.5 Cu	65 Zn	70 Ga	73 Ge	75 As	79 Se	80 Br	84 Kr
potassium 19	calcium 20	scandium 21	titanium 22	vanadium 23	chromium 24	manganese 25	iron 26	cobalt 27	nickel 28	copper 29	zinc 30	gallium 31	germanium 32	arsenic 33	selenium 34	bromine 35	krypton 36
85 Rb	88 Sr	89 Y	91 Zr	93 Nb	96 Mo	[98] Tc	101 Ru	103 Rh	106 Pd	108 Ag	112 Cd	115 In	119 Sn	122 Sb	128 Te	127 I	131 Xe
rubidium 37	strontium 38	yttrium 39	zirconium 40	niobium 41	molybdenum 42	technetium 43	ruthenium 44	rhodium 45	palladium 46	silver 47	cadmium 48	indium 49	tin 50	antimony 51	tellurium 52	iodine 53	xenon 54
133 Cs	137 Ba	139 La *	178 Hf	181 Ta	184 W	186 Re	190 Os	192 Ir	195 Pt	197 Au	201 Hg	204 TI	207 Pb	209 Bi	[209] Po	[210] At	[222] Rn
caesium 55	^{barium} 56	lanthanum 57	^{hafnium} 72	tantalum 73	tungsten 74	rhenium 75	^{osmium} 76	iridium 77	^{platinum} 78	^{gold} 79	mercury 80	thallium 81	lead 82	bismuth 83	polonium 84	astatine 85	radon 86
[223] Fr francium 87	[226] Ra ^{radium} 88	[227] Ac* ^{actinium} 89	[261] Rf rutherfordium 104	[262] Db ^{dubnium} 105	[266] Sg seaborgium 106	[264] Bh ^{bohrium} 107	[277] Hs ^{hassium} 108	[268] Mt meitnerium 109	[271] Ds darmstadtium 110	[272] Rg roentgenium 111	Eleme	ents with repor	atomic ted but r	numbers not fully a	s 112 – 1 authentio	16 have cated	been

* The Lanthanides (atomic numbers 58 - 71) and the Actinides (atomic numbers 90 - 103) have been omitted.

Relative atomic masses for Cu and CI have not been rounded to the nearest whole number.



1. Sk	eleton		3. Mu	ıscles				
1.1	What is the skeleton composed of?	Bones	3.1	3.1 How do muscles allow the sl		0 They contract	(get shorter)	
1.2	Is bone an example of a cell, tissue or organ?	Tissue		move?				
1.3	What makes bones strong but slightly flexible?	Calcium and other minerals	3.2 What name is given to a pair of muscles that work together to			Antagonistic n	ic muscles	
1.4	What is important, to keep bones healthy?	Exercise and a balanced diet		movement?	0 00000			
1.5	How many bones does the average human skeleton consist of?	Around 200	3.3	Why must some muscles wor pairs?	'k in	Because they	can only pull not push	
1.6	What are the four main functions of the skeleton?	Support the bodyProtect the vital organs	3.4	How do bicep and triceps mu cause your arm to bend?	scles	The bicep mus triceps muscle	cle contracts, the relaxes	
		MovementMake blood cells	3.5	How do bicep and triceps mu cause your arm to straighten	scles ?	The triceps mubicep muscle r	iscle contracts, the elaxes	
2. Joi	nts	4. Chicken Wing						
2.1	What is a joint?	Where two or more bones join together	4.1 What precautions should you minimise the risk of bacteria			Wear gloves, w	vash hands after en, disinfect desks	
2.2	What are the three types of joint?	Hinge, ball and socket, fixed		dissecting a chicken wing?	-			
2.3	Give an example of each type of joint	 Hinge – knee or elbow Ball and socket – hip or shoulder Singel – should 	4.2	.2 What precautions should you take to minimise the risk of sharps when dissecting a chicken wing?		take to Keep equipment in the dissection hen tray, hold equipment as demonstrated		
2.4	Why are benes envered in certilege at a joint?	Fixed – Skull	C	biceps	5. Bio	mechanics	anics	
2.4	why are bones covered in cartilage at a joint?	rubbing against each other	triceps relaxes	biceps contracts relaxes	51	How can you	By measuring the	
2.5	What is the purpose of ligaments at the joint?	To connect the bones together	arm	s arm straightens	5.1	measure the strength of a	how much force it exerts	
2.6	What is the purpose of tendons at the joint?	To connect muscles to bones				muscle?		
hip bone	cartilage fluid ligaments	Alula, or Thumb Hand Upper Arm Forearm	Tric	Erep Present Present Recent	5.2	What piece of equipment can be used to measure the strength of a muscle?	A Newton meter	



1. Electrical Conductor and Insulators						
1.1	What is an electrical conductor?	A material that allows charge to pass through it easily				
1.2	What is a charge carrier?	Particles that carry the charge through a circuit				
1.3	Why are metals good electrical conductors?	They have lots of charge carriers that are free to move				
1.4	Give two examples of conductors used in circuits	Copper in wiring, metal filament in a light bulb				
1.5	What is an electrical insulator?	A material that does not allow charge to pass through it				
1.6	Give four examples of materials which are electrical insulators	Plastic, wood, glass, rubber				

2. Circ	2. Circuits							
2.1	Draw the circuit symbols for the following electrical components: Switch, cell, battery, lamp, voltmeter, ammeter, resistor, variable resistor, motor	Switch Cell Switch Cell Lamp Voltimeter Resistor Variable resistor High Ammeter Battery Motor						
2.2	What is electric current?	The flow of charge						
2.3	What is potential difference?	A measure of how much energy is given to the charge carriers in a circuit						

2.4	What is required for current to flow in a circuit?	A complete circuit, a potential difference
2.5	What provides the potential difference in a circuit?	A battery or cell
2.6	What store of energy is stored in a battery or cell?	Chemical
2.7	What is the unit for current?	Amps (A)
2.8	What is the unit for potential difference?	Volts (V)
2.9	What piece of equipment can be used to measure the current in a circuit?	An ammeter
2.10	What piece of equipment can be used to measure the potential difference in a circuit?	A voltmeter

3. Seri	3. Series Circuits				
3.1	How are components arranged in a series circuit?	In a single loop			
3.2	Draw a series circuit with two bulbs and a cell				
3.3	How does current behave in a series circuit?	Current is the same throughout the circuit			



4. Par	allel Circuits			7. Pov	ver and Electricity Costs		
4.1	How are components arranged in a parallel circuit?	In more than	one branch	7.1	What is electrical power?	The rate at which energy is transferred by a circuit	
4.2	Draw a parallel circuit with two bulbs				How is electrical power calculated?	Power = energy transferred ÷ time (s)	
	and a cell	+	&	7.3	What is the unit for power?	Watts (W)	
				7.4	What is 1kW?	1000W	
4.3	How does current behave in a parallel circuit?	Current in ead circuit is equa the entire circ	Current in each branch of a parallel circuit is equal to the total current in the entire circuit		What is the purpose of an electrical metre in your home?	For energy companies to monitor the amount of energy transferred to our homes to generate a bill	
5. Res	sistance	A measure of how much a material reduces the flow of charge (the current)		7.6	If an electrical appliance has a large power rating what does this mean?	It is able to transfer energy quickly	
5.1				7.7	What unit is used by energy companies for 'energy transferred'	kWh (kilowatt hour)	
5.2	What is the unit of resistance?	Ohms (Ω)	Ohms (Ω)		What is 1kWh2	The amount of onergy transferred to	
5 2	What offect will adding more	The resistance	The resistance will increase The current will decrease			a 1kW appliance in an hour	
5.5	components to a circuit have on the resistance and current in the circuit?	The current w			How is the amount of energy transferred calculated?	Energy transferred = power x time (h)	
6. Cir	cuit Problems						
5.1	What is the missing reading in this diagra	ım? Why?	0.3A as current is the same throughout the series circuit	Want to make your own circuits online?			
5.2	What is the missing reading in this diagram? Why?	$ \begin{array}{c} 10. \\ 10. \\ 10. \\ 10. \\ 0.3A \end{array} $	0.6A as current in all the branches of a parallel circuit add up to make the total current				



1. Rep	productive Organs (in humans)		1.12	1.12 What is the function of the female To produce egg cells		To produce egg cells and support the
1.1	What is the function of male and female reproductive systems in	To allow reproduction (the production of offspring/children)		reproductive system?		growth of an unborn baby (foetus) before birth
	humans?		1.13	What are the main parts of the	ne	
1.2	What is fertilisation?	The joining of sperm and egg cells to form an embryo			Side view	oviduct ovary uterus
1.3	What is the function of the male reproductive system?	To produce sperm cells and release them inside a female		bladder p		bladder cervix vettra vagina
1.4	What are the main parts of the male reproductive system?					
	Front view Side view	bladder glands	1.14	What is the function of the ov	varies?	To store and release egg cells
		sperm duct penis urethra testicles scrotum	1.15 1.16	What is the function of the oviducts?		To carry an egg to the uterus
				What is the function of the uterus?		The place where the foetus (unborn baby) develops
			1.17	What is the function of the cervix?		To separate the vagina from the uterus (it is a ring of muscle)
1.5	What is the function of the testes?	To produce sperm cells and the male	1.18	What is the function of the vagina?		To receive sperm during sexual intercourse
1.6	What is the function of the scrotum?	To contain the two testes	2. Fertilisation			
1.0	What is the function of the glands?	To produce nutrients that help keep	2.1	What are gametes?	Reprodu	uctive cells (e.g. sperm and egg cells)
		sperm alive	22	What are the main steps in	1 An	egg is released from the ovary and travels
1.8	What is semen?	The mixture of sperm and nutrient-rich fluid produced by the glands	2.2	the process of fertilisation?	thro 2. Dur	bugh the oviduct towards the uterus ring sexual intercourse, ejaculation occurs
1.9	What is the function of the sperm ducts?	function of the spermTo carry sperm from the testes to the penisfunction of the urethra?To catty urine from the bladder or sperm from the sperm duct			in w rele 3. Spe	vnich semen (containing sperm) is eased from the penis into the vagina rm cells swim from the vagina through
1.10	What is the function of the urethra?				the 4. Spe 5. If a	cervix rm cells then travel to the oviduct sperm cell meets an egg cell, fertilisation
1.11	What is the function of the penis?	To carry urine or semen out of the body			000	urs



2.3	Where does fertilisation take place?	In the oviduct	4. N	lenstrual Cycle	
2.4	What is a foetus?	An unborn baby	4.1	What is the menstrual	A recurring process that occurs in
2.5	How does a fertilised egg develop into a foetus?	 The fertilised egg divides several times to form an embryo The embryo attaches to the lining of the uterus and develops into a foetus 		cycle?	females to prepare an egg for fertilisation
				When does the menstrual cycle begin in females?	During puberty (which will cause periods to begin)
2.6	What is the purpose of contraception?	To prevent pregnancy occurring	4.3	On average, how long does	28 days
2.7	Name three ways contraception can work	1. Preventing the sperm meeting the egg		the menstrual cycle take?	
		 Stopping egg production Stopping the fertilised egg implanting into the lining of the uterus 	4.4	What controls the menstrual cycle?	Reproductive hormones
			4.5	What is menstrual	When blood from the lining of the
2.8	Name two methods of contraception	 Condom Contraceptive pill 		bleeding?	uterus leaves the body through the vagina
3. Adolescence		4.6	What is ovulation?	The release of an egg from the ovaries	
3.1	What is puberty?	The physical changes to the body that occur during adolescence		What are the main events that occur in the menstrual cycle?	 Lining of the uterus builds up in preparation for a fertilised egg Ovulation
3.2	Where are sex hormones that cause puberty produced?	Females – in the ovaries Males – in the testes			 Break down of the uterus lining (if fertilisation does not occur)
3.3	What is the purpose of puberty?	To cause the reproductive system to develop which allows reproduction to occur as an adult	5. Gestation and Birth		
3.4	State four changes that takes place in both males and females during	 Pubic hair and underarm hair grows Body smell becomes stronger 	5.1	What is gestation?	The time from fertilisation until birth (pregnancy)
	adolescence	 Experience emotional changes Growth spurt 	5.2	What is the gestation period in humans?	9 months (40 weeks)
3.5	State four changes that take place during	1. Breasts develop		Questions 2.4 and 2.	5 should be revisited here
	addiescence that only occur in temales	 Ovaries start to release egg cells Periods start Hips widen 		How is the growth of the foetus supported during gestation?	The foetus receives nutrients and oxygen from it's mother through the blood
3.6	State four changes that take place during adolescence that only occur in males	 Voice breaks Testes and penis get bigger Testes start to produce sperm Hair grows on the face and chest 		What is the function of the placenta in gestation?	To allow substances to pass between the mother's blood and the foetus' blood



5.5	What is the function of the	To connect the foetus to the placenta?	6. Flo	ower Structure (plant reproduction)	
5.6	umbilical cord? What is the purpose of the	To act as a shock absorber, protecting	6.1	What is the purpose of a flower?	To allow plants to sexually reproduce through a process called pollination
	amniotic fluid?	the foetus from bumps	6.2	What is the name of the female part	Carpel
5.7	How do substances move into and out of the placenta?	Substances in the blood diffuse in and		of a flower?	
		blood (the blood does not mix)	6.3	What is the name of the male part of a flower?	Stamen
5.8	Name an example of a substance which moves out of the foetus' blood into the placenta	Carbon dioxide	6.4	What is the name of the male gamete in plants?	Pollen
5.9	What changes occur to the mother	The cervix relaxes and dilates (gets wider)	6.5	What is the name of the female gamete in plants?	Egg
	during birth? wider) • The muscles in the wall of the uterus contract What are the names of the structures in the diagram below? • The muscles in the diagram below? • The muscles in the diagram below?		6.6	What are the main structures found in a flower?	petal
5.10				stamen A B C C Carpel F F	stamen filament ovary ovule sepal
	ε	Cervix	7. Pc	llination	
	Vagina	Vagina	7.1	What is pollination?	The process of the pollen transferring to the stigma
			7.2	What is self-pollination?	When the pollen is transferred to the stigma of the same plant
			7.3	What is cross pollination?	When the pollen is transferred to the stigma of a different plant
			7.4	Name two methods of pollination	Insect and wind



7.5	State five features common to	tate five features common to 1. Brightly coloured and sweet-smelling		eds and Fruits		
	insect-pollinated flowers	2. Small amounts of pollen production 3. Sticky or spiky pollen	9.1	What happens to the ovary of a flower following fertilisation?	It develops into a fruit	
	4. Sticky stigma	4. Sticky stigma	9.2	What is a fruit?	A developed ovary containing seeds	
7.6	What is nectar?	A sugar-rich liquid which insects use as food	9.3	What are the three main structures found in a seed?	A seed coat, an embryo, a food store	
7.7	State four features common to wind-pollinate flowers	 Small petals, often brown or dull green Large amounts of pollen production Pollen which has a low mass No nectar-secreting cells 	9.4	What is function of each structure fond in the seed?	 Seed coat – for protection Embryo – to contain the young root and shoot Food store – for the young plant to use 	
7.8	How does insect pollination occur?	 An insect visits a flower and pollen sticks to it The insect moves to the flower of another plant (or same plant) The pollen rubs off on to the stigma 	9.5	What are the names of the structures labelled in this diagram?	before it can photosynthesise	
7.9	How does wind pollination occur?	The pollen from the flower of one plant is blown by the wind and lands on the stigma of another plant's flower		A B C		
8. Fei	rtilisation in Flowering Plants					
8.1	What occurs for fertilisation to	The nucleus of a pollen joins with the nucleus of an egg to make a seed	9.6	What is germination?	When a seed starts to grow	
8.2	What are the main steps	1. A pollen grain is transferred to the	9.7	Name three factors required for germination	Water, oxygen, warmth	
	involved in fertilisation?	stigma 2. A pollen tube grows from the stigma to	10. Seed Dispersel			
		the ovary through the style	10. 30	What is soud disportal?	The movement of coods away from the	
		3. The nucleus of the pollen grain passes through the pollen tube	10.1	what is seed dispersal?	parent plant	
		 It then joins with the egg cell inside an ovule of the ovary The fertilised egg will develop into a seed 		What is the purpose of seed dispersal?	To allow a seed to germinate away from other plants to reduce competition for water and sunlight	
				What are the four main methods of seed dispersal?	Wind, animal, water, explosive	



1.1 1.2 + 1.3 1.4	In a chemical reaction, what happens to the atoms? How could you tell if a chemical	They are rearranged				
1.2 F 1.3 C	How could you tell if a chemical		4.1	What gas must be present for burning to happen?	Oxygen	
1.3 C	reaction has taken place?	Temperature change, colour change, gas formed, solid formed	4.2	What is the scientific term for a		
	Give an example of a physical change	Melting, Boiling, Condensing, Freezing	4.2	chemical reaction where burning happens?	Combustion	
p	What is the differnce between a physical and a chemical change?	A chemical change results in the formation of new products. A physical change no new chemicals are formed	4.3	Burning fuels is useful because it releases light and it causes which store of energy to increase?	Thermal store	
2. Law	of Conservation of Mass		4.4	What two things are produced	Carbon Dioxide and Water	
2.1 W	/hat is the law of conservation of nass?	Atoms are neither created or destroyed during a reaction, they are simply rearranged	4.5	when a fuel is burnt? Write the word equation for the		
2.2 If r	mass appears to be lost in a reaction, hat has happened?	A gas has been produced which escapes		combustion of methane	Methane + Oxygen → Carbon Dioxide + Water	
2.3 If r	mass appears to be gained in a eaction, what has happened?	Atoms of a gas from the air have been added	4.6 Balance the symbol equation for the combustion of methane and draw a particle 4.6 diagram so show that no atoms have been lost or created during the reaction $CH_4 + O_2 \rightarrow CO_2 + H_2O$			
2.4 realized yo	you react 7g of reactant A with 4 g of eactant B, what mass of product C will ou have (A + B \rightarrow C)?	7g + 4g = 11g	$(H_{1} 2O_{2} - CO_{2}) + (H_{2} O_{2}) \rightarrow (H_{2} - CO_{2}) + (H_{2} O_{2}) +$			
3. Therr	mal Decomposition		5. Gas Tests			
W	/hen copper carbonate is heated, it		5.1	What is the test for carbon dioxide?	Turns limewater cloudy	
3.1 die	ioxide. What is the name of this type	Thermal decomposition	5.2	What is the test for oxygen?	Relights a glowing splint	
of 2 2 W	f reaction? /rite the general word equation for a	Metal Carbonate → Metal Oxide + Carbon	5.3	What is the test for hydrogen?	Makes a squeaky pop with a lit splint	
3.2 th	nermal decomposition reaction	Dioxide	6. Te	mperature Changes		
3.3 th Ca	nermal decomposition of Calcium arbonate	Calcium Carbonate → Calcium Oxide + Carbon Dioxide	5.1	What is the name given to chemical reactions which cause an increase in	Exothermic reactions	
Dr 3.4 ca ch	 Draw a particle diagram to represent the thermal decomposition of calcium carbonate which shows that no atoms have been created or destroyed during the chemical reaction. Use the symbol equation to help you. 		5.2	the temperature of the surroundings What is the name given to chemical reactions which cause a decrease in	P Endothermic reactions	
	$CaCO_3 \rightarrow CaO + CO_2$			the temperature of the surroundings Why do reactions cause a change in the temperature of the surroundings	 ? When the atoms rearrange energy may be ? absorbed or released 	



1. Vibr	1. Vibrations and Waves					
1.1	What do waves do?	Transfer energy from one place to another.]			
1.2	What type of wave is a water wave?	A transverse wave.				
1.3	What is a transverse wave?	A wave where the oscillations (vibrations) are perpendicular (at a 90° angle) to the direction the wave is travelling.				
1.4	Draw and label a transverse wave.	amplitude (m) wavelength (m) peak or crest	1.14			
1.5	What is the unit for amplitude?	Metres.				
1.6	What is the unit for wavelength?	Metres.				
1.7	What is the highest point of the wave called?	Peak or crest.				
1.8	What is the lowest point of the wave called?	Trough.				
1.9	What is the amplitude of a wave?	The maximum height of the wave from its resting position.				
1.10	What is the wavelength of a wave?	The distance from any point on one wave to the same point on the next wave along.				
1.11	What are the two types of waves?	Transverse and longitudinal.				
1.12	What is a longitudinal wave?	A wave where the oscillations (vibrations) are parallel (in the same direction as) the direction that the wave is travelling.				

.13	Draw and label a longitudinal wave.	
14	What is an area of compression?	When the vibrations are close together.
15	What is an area of rarefaction?	When the vibrations are further apart.



2. Sou	2. Sound and Energy Transfer					
2.1	Give an example of a longitudinal wave.	Sound.				
2.2	How does an object produce sound?	The object vibrates, this causes the air particles around it to vibrate. The air particles bump into each other, transferring the vibrations through the air.				
2.3	Can sound travel through a vacuum?	No, it needs particles to travel through.				
2.4	Why does sound travel fastest in a solid?	In a solid, the particles are close together.				
2.5	Why does light travel faster than sound?	Light does not rely on particles to transfer vibrations.				

3. Loudness and Pitch			4. Speed of Sound			
3.1	What two pieces of equipment can we use to see sound?	An oscilloscope an	d a microphone.	4.1	What equation can be used to calculate the speed of sound?	speed = distance ÷ time
3.2	What does the amplitude of a sound wave show?	The loudness of th	ne sound wave.	4.2	What is the unit for speed?	Metres per second (m/s)
2.2	Draw the assillarsone trace for a			4.3	what is the unit for distance?	Metres (m)
5.5	loud sound and quiet sound.			4.4	What is the unit for time?	Seconds (s)
		AA	$f \chi f \chi$	4.5	How many metres are in one kilometre?	1000m
		4.6	How many seconds are in one minute?	60 seconds		
		low amplitude = quiet sound	high amplitude = loud sound	Work		
3.4	What does the frequency of a sound wave show?	The pitch of the sc	ound wave.	Calcu	late the speed of a sound wave that travels 3400m	i in 10s.
3.5	What is frequency measured in?	Hertz (Hz)			5= 3400 - 10	
3.6	Draw the oscilloscope trace for a high and a low pitch sound.				6 = <u>340m/s</u>	
		Low frequency = low pitch	high frequency = high pitch	Calculate the time it takes for sound to travel 1200m. $S = d \div E$ $340 = 1200 \div E$ $E = 1200 \div 340$		
3.7	What is the human auditory range?	20 – 20,000Hz			$t = \underbrace{3.55}_{===================================$	



5. Echo	5. Echoes			6.4 What does the ear drum do when	It vibrates.	
5.1	What is an echo?	An echo is produced when		a sound wave hits it?		
		sound is reflected off a surface.	6.5	What is the cochlea?	A snail-like structure filled with	
5.2	What is the speed of sound at normal room	340m/s.			tiny hairs and liquid.	
	temperature?		6.6	What is the function of the	They transfer the movement to	
5.3	Give an example of an animal that can use	Bats.		specialised cells at the bottom of	electrical signals which can then be	
	echoes to map their surroundings.	bes to map their surroundings.		the hairs inside the cochiea?	brain.	
Worked example question:						
Calculate how far away a wall is from you if it takes 20 seconds to hear an echo. $S = d \div t$ $340 = d \div 20$			6.7	What part of the human ear is similar to the diaphragm of a microphone?	The ear drum.	
340 x 20 = d d = 6,800m This is an echo so d = 6800 ÷ 2 d = 3400m			6.8	Vibrations of the diaphragm of a microphone are turned into electrical signals. What part of the human ear is this similar to?	The hairs in the cochlea.	

6. Detecting Sound			7. Ultrasound		
6.1	What part of the human body is used to detect sound?	The ear.	7.1	What is ultrasound?	A sound with a frequency of over 20,000Hz.
6.2 W	What are the labels for 1-8?	1 – pinna 2 – ear canal 3 – ear drum 4 – hammer 5 – anvil 6 – stirrup 7 – cochlea 8 – auditory nerve	7.2	Why can humans not detect this sound?	Because it is above the range of human hearing.
			7.3	Name two ways in which we can use ultrasound for detection.	 To make images of an unborn baby. To look at shipwrecks at the bottom of the sea.
			7.4	Why is it safe to use ultrasound	Because it is a sound wave and
6.3	Which two parts of the ear make up the outer ear?	The pinna and the ear canal.		on an unborn baby?	these are not narmful.



¿Cuándo?	When?
este fin de semana	this weekend
el sábado por la mañana	on Saturday morning
el domingo por la tarde	On Sunday afternoon/evening
primero	first
luego	then
finalmente	finally

¿Qué haces en la ciudad? What do you do in town?			
Voy	l go		
al cine	to the cinema		
al parque	to the park		
a la bolera	to the bowling alley		
a la cafeteria	to the cafeteria		
a la playa	to the beach		
de compras	shopping		
de paseo	for a walk		
Salgo con mis amigos.	I go out with my friends.		
No hago nada.	I do nothing.		

En la ciudad	In the city
Нау	There is
un castillo	a castle
un centro commercial	a shopping centre
un estadio	a stadium
un mercado	a market
un museo	a museum
un parque	a park
una piscina	a swimming pool
una plaza	a square
un polideportivo	a sports centre
un restaurant	a restaurant
una tienda	a shop
una universidad	a university
mi barrio	my neighbourhood
mi ciudad	my city
mi pueblo	my town/village

La hora	The time
Es la una	it's one o'clock
Son las dos	lt's two o'clock
y media	half past
y cuarto	quarter past
menos cuarto	quarter to

En la cafeteria	In the cafe
bebidas	drinks
un batido de chocolate/fresa	a chocolate/strawberry milkshake
un café	a coffe
un granizado de limón	an iced lemon drink
un té	a tea
raciones	snacks
calamares	squid
croquetas	croquettes
gambas	prawns
jamón	ham
pan con tomate	tomato bread
patatas bravas	spicy potatoes
tortilla	Spanish omelette



Youtube is a great source of learning for Spanish. Watch the documentary below and design a poster for San Fermín running of the bulls.

Use Quizlet to practice learned and new more challenging vocabulary.



San Fermín documentary.







Shopping vocabulary.

At the train station.



Research information about "La Tomatina" a festival which happens in August in Spain. Write a fictional account in English as if you had attended it last year.



1. Health and Safety in the Workshop			4. P
1.1	Workshop P.P.E. What to wear?	Personal Protective Equipment- Goggles, Face Mask, Overall, Footwear, Hair tied back, NO jewellery.	4.1
1.2	The workshop in action	Move sensibly, do not talk/distract others when using machinery, tool handling and storage.	4.2
1.3	Using tools and machinery	Listen carefully during demonstrations, follow all safety instructions, ask if unsure how to proceed.	4.3
1.4	Safety in action	Emergency Stop Button, Report breakages, First- Aid.	4.4

4. P	4. Packaging Design/ Commercial Graphics		
4.1	commercial graphics	Real world graphic product design- max 2-3 Contrasting colours, TEXT created and positioned to attract target users.	
4.2	development/net	The 2D layout outline drawing of a 3D Graphic Product.	
4.3	3D drawing tech- niques	Isometric drawings and perspective drawings are commonly used to show an item in 3D	
4.4	typeface/font	The name for a TEXT style e.g Arial whilst the FONT is the variation of the TYPEFACE e.g BOLD, ITALIC, WEIGHT of text.	

2. C/	2. CAD/CAM				
2.1	Computer Aided Design (CAD)	TechSoft Design V3- Computer software used for designing and creating CAD files at Kings'.	Try Square		
2.2	Computer Aided Manufacturing (CAM)	Laser cutter/vinyl cutter/3D printer – CNC Equipment used for manufacturing CAD files.			
2.3	Computer Numerical Control (CNC)	The manufacturing method that automates the control, movement and precision of machine tools through the use of preprogrammed computer software.			
2.4	metric- millimetres (mm)/centimetres (cm)	The measuring system used in the UK- 10mm =1cm.	Topon Sour		
2.5	bitmap	Bitmaps consist of many tiny dots called pixels. Bitmap graphics lose quality when resized.	Tenon Saw		
2.6	vector	Vector graphics are based on mathematical relationships and do not lose quality when resized.			
2.7	grid lock/step lock	CAD tool that restricts drawing to GRID or STEP increments e.g 10 or 1 mm (like Grid Paper).	Graphic Products		

3. Materials knowledge: Timber and Manmade Boards			
3.1	coniferous trees	Fast growing family of trees that have needles/firs/pine leaves. Evergreen- no leaf drop. Wider grain distance.	
3.2	deciduous trees	Slow growing family of trees that have broad/ flat leaves. Bear fruit. Autumn leaf drop. Closer grain distance.	
3.3	softwood	Category of trees- types include Pine, Larch, Spruce.	
3.4	hardwood	Emergency Stop Button, Report breakages, First- Aid.	
3.5	manmade boards	Plywood/MDF- manufactured sheets using timber fibre.	
3.6	woodworking hand/ power tools	Pillar drill, machine vice, power sander, tenon saw, bench hook, sandpaper- sanding block. pva glue.	

5. M	aterials knowledge: Polymers		
5.1 thermoplastics		Polymers that can be melted and recast almost indefinitely e.g. Acrylic, HIPS High Impact Polystyrene Sheet.	
5.2	.2 thermosetting Polymers that form irreversible chemical bonds during the curing process e.g Epoxy/Urea formaldehyde.		
5.3	line bending	Heating and shaping acrylic using a bending jig.	
5.4	marking out	Measurement, try square, steel rule, chinagraph pencil.	
5.5	5.5 cutting Junior hacksaw/abrafile/coping/Hegner FretSaw.		
5.6	filing/finishing	Cross filing, draw filing, wet and dry abrasive sheet.	

TV programs to watch:



QR codes links to scan:





Technologystudent.com Excellent D&T teacher designed website

BBC Bitesize – Ks3 & Ks4 AQA







TechSoft.co.uk CAD Software Downloadable DEMO Books to read:





0 GRID

Places to visit:



Winchester Science Museum



Legoland



BMW Mini Factory - Oxford



CNC Milling & Routing





Stretch your vocabulary				
1	target user	The intended client – consider their age/interest/tastes		
2	sustainability	Maintaining something at a certain rate or level.		
3	the 6 R's	Recycle, Re-Use, Repair, Reduce, Refuse, Rethink		
4	smart materials	Materials that respond to their environment e.g. temperature/moisture etc.		
5	stock forms	Standard sizes of materials e.g 50mm x 25 mm softwood.		
6	wasting	Removing material from a solid material to form a useful product.		
7	quality control	A method to ensure products are checked for accuracy during manufacturing and are fit for purpose.		







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