Y7 KNOWLEDGE ORGANISER

If you are not willing to learn, no one can help you. If you are determined to learn, no one can stop you.





Name:
Tutor Group:
Tutor & Room:

Contents

1.	Your Knowledge Organiser and Self-Quizzing Book
2.	How do I complete Knowledge Organiser homeworks?
3.	Morton Literacy Whole School Literacy Fundamentals
4.	Morton Literacy Whole School Literacy Fundamentals
5.	Art The Formal Elements, Colour Theory Etc
6.	Art Pablo Picasso
7-8.	English Wolf Wilder
9.	English War Poetry
10-12.	English War & Conflict
13-16.	Food Tech Cooking And Nutrition
17.	Geography Mapping
18.	Geography Map Titles, Key And Scale
19.	Geography World Development
20.	Geography World Development
21.	Geography Key Terms
22.	Geography Strategies To Improve Quality Of Life
23.	Geography Command Words
24.	Geography World Of Work
25.	History The Norman Conquest
26.	History Key Words
27.	History The Norman Conquest Knowledge Outcomes
28-29.	Computing Introduction to Programming
30.	Computing Programming
31.	Computing Online Safety
32.	Mathematics Numerical Skills, Order of operations
33.	Mathematics Basic rules of algebra, Factors and Multiples

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34.	Mathematics Expand and factorise, Addition and
	Subtraction, Perimeter
35.	Mathematics Multiplication and Division
36.	Mathematics Area of rectangles and triangles and parallelograms
37.	Mathematics Fractions
38.	Mathematics Substitution, Angles
39.	Mathematics Polygons, Symmetry and reflection
40.	Mathematics Coordinates, Mean
41.	Mathematics Two-way tables & Venn diagrams
42.	Music The Elements Of Music
43.	Music Melody – Keyboard Skills
44.	Pe/Sports Studies Components Of Fitness
45.	Pe/Sports Studies Warm Up And Cool Down
46-47.	Drama
48-49.	Re Beliefs, Philosophy and Ethics
50-53.	Science Particles
54.	Science Definitions – Particles 7CP
55-56.	Science Cells, Tissues And Organs
57.	Science Definitions – Cells, Tissues And Organs 7BC
58-59.	Science Energy
60.	Science Definitions – Energy 7PE
61.	Science Chemical Reactions
62.	Science Definitions – Chemical Reactions 7CC
63-64.	Spanish Gramática Importante
65.	Spanish Unit 1: Me Presento Introducing Myself
66-67.	Spanish Unit 2: Mi Familia Y Otros Animales

Your Knowledge Organiser and Self-Quizzing Book

Remember!

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Year 7 | Knowledge Organiser

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You <u>must</u> bring your Knowledge Organiser and Self-Quizzing Book to every lesson and place it on your desk at the beginning of each lesson.

You <u>must</u> keep all of your Knowledge Organisers and Self- Quizzing Books because the fundamental knowledge required in Year 7 will also be required in Years 8-11.

Knowledge Organisers are **NOT** a replacement for revision guides but they include the fundamental knowledge that ALL students in Year 7 require.

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Y7 KNOWLEDGE

ORGANISER

Knowledge Organisers

Knowledge Organisers contain critical, fundamental knowledge that you MUST know in order to be successful in Year 7 and subsequent years.

They will help you recap, revisit and revise what you have learnt in lessons in order to move the knowledge within from your short-term memory to long-term memory.

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Self-Quizzing Book

This is the book that all Knowledge Organiser homework is to be completed in. You must follow the simple rules as to how they are to be used.

How do I complete Knowledge Organiser homeworks?

You will be set a MINIMUM of 2 Knowledge Organiser homeworks in every subject each half term



Can I write in paragraphs?

The **TIPTOP** rule

You move onto a new paragraph when you change Time, Place, Topic or Person.

- 1. I always start an essay with an introduction which addresses the question.
- 2. I finish an essay with a conclusion to summarise the main points of my argument and to address the question again.
- 3. I use connectives in each paragraph to link my ideas and to put them in a logical order.

urthermore	But	Meanwhile
Whereas	Since	Nonetheless
levertheless	Yet	However
Iternatively	Therefore	Although
onsequently	Besides	Moreover

	H	ave I used the correct grammar?
	lan app • N • N h	n aware that I must use language that is propriate to my reader. Io slang that lesson was bangin' Io informal language I'm gonna do my omework now
1	Otl	ner things to consider:
•	*	I am clear about the purpose of this piece of writing
	✓	I know who my audience is
-	~	I will use a suitable layout and text type

I am proud of my work because...

understand my writing easily.

- I have checked my spelling and corrected any errors.
- I have used full sentences with a subject and a verb
- I have used correct punctuation and grammar
- I have paragraphed my work using **TIPTOP**.
- My writing is suitable for the person I am writing for.

Can I spell familiar words accurately?

Common contractions

letter(s) we have left out.

11 o'clock	How's	
Aren't	I'd	
Can't	1'11	
Couldn't	l'm	
Didn't	lsn't	
Doesn't	lt'd	
Don't	It'll	
Hadn't	lt's	
Hasn't	Mightn't	
Haven't	Mustn't	
He'd	Shan't	
He'll	She'd	
He's	She'll	
How'd	She's	
How'll	Shouldn't	

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I have written clearly so that my reader can

We must use an apostrophe to replace any

They'd	Where'll
They'll	Where's
They're	Who'd
Wasn't	Who'll
We'd	Who's
We'll	Why'd
We're	Why'll
Weren't	Why's
What'd	Won't
What'll	Wouldn't
What's	You'd
When'd	You'll
When'll	You're
When's	
Where'd	

Can I use different sentence types?

Simple sentences: Contains a subject and a verb and can contain an object

- Sarah likes to read in the library.
- Tom enjoys reading at home.

Compound sentences: Joins two simple sentences using the connectives: for, and, nor, but, or, yet, so.

• Sarah likes to read in the library but Tom prefers to read at home.

Complex sentences: A complex sentence contains a conjunction such as because, since. after, although, or when.

- Because Robert felt tired, he only studied for an hour.
- Although the rain had stopped, the pitch was still water-logged
- Paul enjoys Music, however, he is more proficient in Art.

Homophones

I have checked that I have not mixed up my homophones.

Affect/effect Bare/bear Brake/break Buy/by For/four Flour/flower Grate/great Hair/hare Hole/whole Hour/our Kniaht/niaht Know/no Meat/meet

One/won Passed/past Peace/piece Practice (n)/practise (v) Read/red Sea/see Sight/site Son/sun To/too/two Wait/weight Weak/week Wear/where

2	Basics:	Can I use punctuation?	Can I use punctuation?		1. The Formal Elements	2. Colour
mentals 2 of ;	 Every sentence must start with a capital letter. Every sentence must finish with some form of punctuation: .?! Proper nouns need capital letters. These are unique people, places or things e.g. there are many cities so 'city' doesn't take a capital letter. However there is only one London, therefore it takes a capital letter. 	The Apostrophe I always aim to use apostrophes correctly. There are two main reasons why we use apostrophes: for possession and to replace a letter or letters. Note: Apostrophes are NEVER used to denote plurals	Apostrophe for Possession Line: Creates shape; the outer edge of something. (To show that something belongs to another) If a single thing/person owns anything, add an apostrophe + 's'. • The dog's bone • The boy's homework • Jones's bakery • Texture: The feel or appearance of a surface bew rough or smooth		Colour: When light is reflected off an object, colour is what the eye sees. The Primary Colours are red, blue and yellow. The primary colours are combined to create secondary colours. The Secondary Colours are green, purple and orange. Red + Blue = Purple.	
epur	→ When writing titles of works such as books, films or plays:	Full stop indicates that a sentence has finished.	Yesterday's lesson However, if it is plural (more than one), an		it is. Shape and Form: What is created	Yellow + Red = Orange. Warm Colours: Colours that give
Literacy Fu	 Capitalise the first word Capitalise any main/important words Don't capitalise minor words such as 'and', 'of' or 'the' e.g. The Sound of Music, The Wizard of Oz, User: Detec and the Cablet of First 	Comma indicates a slight pause in a sentence, separates clauses in a complex sentence anditems in a list.	 apostrophe comes after the 's'. The dogs' bones The boys' homework Joneses' bakeries (lots of Jones families) Many websites' content is educational 	a postrophe comes after the 's'. when a line is enclosed at techniques are used to n object, shape or face loo sin • The dogs' bones object, shape or face loo • The boys' homework • Joneses' bakeries (lots of Jones families) • Many websites' content is educational • There/their/they're	when a line is enclosed and further techniques are used to make an object, shape or face look 3D.	the feeling of warmth – red, orange, yellow. Cool colours: Colours that give a cool feeling – blue, green, purple.
	When writing speech:	Question goes at the end of a question.				
	 Go to a new line when a different person speaks e.g. "Good morning,"said the headteacher. "It's the afternoon!" replied the student. Each parson's speach is marked with speach marked 	Exclamation mark goes at the end of a dramatic sentence to show surprise or shock.	Note: special care must be taken over the use of there, their and they're as they sound the same but are used quite differently:		 4. Techniques and Mate Whisper Lines: These are <i>light</i> pencil are used when planning out a drawing 	erials: Pencil and Oil Pastel Draw lines created using <i>several strokes</i> of the pen
	e.g. <i>"Walk on the left,"</i> said Mr Mathews.	Apostrophe shows that letter(s) have been left out or indicates possession.	There shows position Your seat is over there. Their shows that 'they' own something Their		 Shading: Is a technique used to create form. In a pencil drawing, shading is m 	e tone. This helps create the illusion of depth a nade by applying the most pressure at
	Can I spell accurately?	Speech un indicate direct speech, the exact words spoken or being quoted.	blazers are navy blue.		the point where the shadow is dark ar • Smudging: Is a shading technique use	nd less pressure to show light tones. ed with soft pencil whereby a finger or tool is.
	Sound out the word. Your own word bank.	Colon introduces a list, a statement or a guote in a sentence.	Iney re is short for they are as in They re revising every day.		used to smudge the pencil to disguise • Fade: This is a gradual transition from	the marks and blend tones together.
	 Think about how it looks. Think about a similar word. Look it up in a dictionary/ spellchecker. Ask a friend or teacher. 	Semicolon ; separates two sentences that are related and of equal importance.	Its Note: its, which shows that something owns something (like our, his etc), does not take an		 pressure placed on the pencil or paste Blend: A blend is created by mixing tw gradual transition from one colour to 	vo or more colours on the paper to create a another.
	 4. Is there a memory sentence for this word? 8. To learn it: look, cover, write, check. 9. Once wou've solved 	Dash / separates extra information from the main clause by holding words apart	apostropne: the dog ate its bone and we ate our dinner.		 Highlights: This is the lightest area on a surface where the light rays hit the forehead, nose, cheeks, chin and eyes. 	an object or face. The highlight is located on form. On a face these areas are generally the .
	cannot always use small exits). 5. Find the word in a list – • Key words list.	Brackets () can be used like dashes, they separate off extra information from the main clause.	Note: special care must be taken over the use of your and you're as they sound the same but are used quite differently:		 Pencils, 4H, 2H, HB, 2B, 4B, 6B: Draw and B stands for 'Black'. The higher the (darker) the pencil is. HB pencils are st whisper lines. 2B, 4B, 6B are soft and d 	ing pencils have grades, H stands for 'Hard' e number the 'harder' (lighter) or 'softer' andard pencils and are good for creating good for shading and smudging.
	Frequently used words list.	to show a passage of time, to Ellipsis hook the reader in and create suspense.	 Your is possessive as in this is your pen. You're is short for you are as in you're coming over to my house. 		Oil Pastels: These are soft, waxy, color creating fades.	ured pastels that are great for blending and

2. Colour Theory

Complementary colours: These colours are opposite each other on the colour wheel. When placed together these colours complement each other - they contrast and make each other stand out.

Harmonious colours: These colours are next to each other on the colour wheel. When these colours are placed together they work in harmony with each other - these colours look similar to each other.

Tint: When white is mixed with a colour to make it lighter.

Shade: When black is mixed with a colour to make it darker.

3. The Colour Wheel



Dil Pastel Drawing

I strokes of the pencil. These

e illusion of depth and 3D

5. Other Terms and Techniques Relating to Portraiture

- Portraiture: The artistic process of creating a painting, drawing, photograph, or engraving of a person, especially one depicting only the face or head and shoulders.
- Features: Eyes, nose, mouth, ears, eyebrows etc.
- Composition: the arrangement or layout of features, shapes or objects on the page.
- Proportion: The size, shape or position of one element of a portrait in comparison to another.
- Foreground, mid-ground, background: The areas at the front, middle or back of a drawing or painting.
- Negative Space: An area of the portrait without detail.



6. Facts About Pablo Picasso

- Picasso was born on October 25, 1881 in the city of Malaga, Spain.
- His first word was "lapiz", the Spanish word for pencil.
- His father was an artist, art professor and museum curator.
- His father started teaching art to him when he was seven years old.
- Pablo completed his first painting when he was nine years old. The title of the painting was Le Picador. The image is of a man riding a horse in a bullfight.
- His father decided that he would give up painting when Picasso was 13 years old because he felt his son was already a better painter than him.
- Picasso was 15 when he finished First Communion. which was an extremely well-known portrait depicting his father, mother and sister.
- Picasso was a co-founder in the movement known as Cubism.
- The Nazis would not let Picasso display his paintings in Germany
- Picasso's art work can be found in art museums throughout the world.
- Picasso passed away on April 8, 1973 in Mougins, France.

7. Words to describe art works				
Element Associated adjectives				
Line	Thick, heavy, thin, light, bold, sharp, loose, crisp, curved, straight, organic.			
Tone Dark, light, mid, flat, uniform, broken, constant, graduated fade, gradual fade, subtle, contrasting, dramatic.				
Texture Flat, smooth, raised, rough, coarse, pitted, scratched, un uniform, hairy, soft, hard, flowing, movement.				
Colour Natural, unnatural, lively, bright, brilliant, deep, dull, warm, cold, contrasting, complementary, harmoniou				
Composition	Centred, asymmetrical, symmetrical, balanced, unbalanced, lopsided, overlapping, cluttered, chaotic, spacious, empty, negative space.			
Shape and Form	2-D, flat, abstracted, simplified, stylised, 3-D, realistic, natural, detailed, distorted, exaggerated, geometric.			
Mood	Calm, peaceful, happy, joyful, romantic, gloomy, miserable, sad, sombre, exciting, thought-provoking, dream-like, surreal, mysterious, strange, confusing, playful, childish.			

8. About This Painting

• The first step in becoming a professional portrait artist is to get a good Art education and become skilled in a variety of art techniques. In order to do this you would need to study Art at GCSE level then go onto to college and possibly university.

'Femme Assise, Robe Bleue'

By Pablo Picasso, 1939

- In order to gain commissions (a commission is when a customer requests artwork from an artist), portrait artists are usually represented by a gallery or agent who promotes their work and arranges commissions for a fee.
- Often portrait artists, and artists in general, promote their work though their own websites, online galleries and social media; this way, there is no need to pay an agent or gallery.
- A good understanding of portraiture is valued in many creative industries such as hairdressing, make up and beauty, fashion and illustration. Element Associated adjectives 'Femme Assise, Robe Bleue' By Pablo Picasso, 1939 Art

9. Portrait Artist as a Career

- The first step in becoming a professional portrait artist is to get a good Art education and become skilled in a variety of art techniques. In order to do this you would need to study Art at GCSE level then go onto to college and possibly university.
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The Wolf Wilder

Year 7 | Knowledge Organiser

Feo and her mother live in the snowy woods of Russia, in a house full of food and fireplaces. Feo's mother is a wolf wilder, and Feo is a wolf wilder in training: a person who teaches tamed animals to be wild again, to fend for themselves, and to fight and to run.

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When the corrupt Russian Army threatens her wolves and arrests her mum, Feo is left with no option but to go on the run. With her wolves by her side, she sets off on a daring, exciting and sometimes scary journey through the snow to St Petersburg, pursued by an evil general who's determined to kill Feo's wolves and stop her at all costs.

Genre: Fantasy	Creative Writing Devices		Ambitious Vocabulary	
Good vs Evil	Sensory imagery	Describe the setting using the five senses: sight, sound, smell,	Enchanting	Malicious
Heroes and villains		taste, touch.		
Individual struggle against power	Simile	Compare two things using 'like' or 'as'.	Mystical	Snarl
A heroic quest	Pathetic Fallacy	Match the weather to the mood of the action in the story		5.0.0
Magic	Personification	Describe objects as though they are alive with their own thoughts and	Revolution	Agitate
Sentence types:		reenings.	Gruelling	Quest
Eeo who loved her wolves hated	Stru	Structuring your story		
to see the beautiful creatures mistreated.	Somewhere	Describe your setting	Aristocracy	Glacial
Three verbs: He tripped, slipped and strumbled on the icy ground	Someone	Introduce a character	Tsar	Fractals
More more more/Less, less, less:	Something	Describe an exciting event or problem		
The <u>more</u> it rained, the <u>more</u> the wind blew, the <u>more</u> the quest seemed hopeless.	Solution	Show how the situation ends	Cowardice	Piercing

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Modern Novel The Wolf Wilder Topic Guide

1. Context Author: Katherine Rundell (1987 -) Nationality: British Other notable works: 'Rooftoppers', 'The Girl, Savage', 'The Explorer' Dates: Published in 2015 Genre: Adventure Fiction Set: The snowbound woods of Russia. Ten minutes away, in a ruined chapel, lives a pack of wolves. Feodora's mother is a wolf wilder, and Feo is a wolf

Author biography:

wilder in training.

- Katherine was born in Kent, England in 1987.
- She spent ten years in Harare, Zimbabwe, where her father was a diplomat.
- She completed her undergraduate studies at St Catherine's College, Oxford (2005 – 2008).First book, published in 2011, was The Girl Savage.
- Her second book, Rooftoppers, followed the adventures of Sophie, apparently orphaned in a shipwreck on her first birthday.
- The Wolf Wilder is her third novel.

Social & historical background:

- Set in the early part of the 20th Century before the 1st WW.
- Tsar Nicholas II is the Monarch of Russia and part of the Romanov family dynasty.
- The Tsar and his family live in the Winter Palace in St Petersburg.
- The Russian people are unhappy with the inequality of wealth and are threatening revolution.
- The wealthy Aristocracy are the ruling classes.
- The Russian Imperial Army are feared and used by the Tsar to maintain order.
- The Bolsheviks were a political faction led by Lenin who openly challenged the ruling of the Tsar.

llaer 10	pic Guide	4. Г	ley vocabulary	
2.1	Key Characters	Aristocracy	A class of people who hold high social rank in society.	
Marina Petrovna: A	wolf wilder	Tsar	A male Russian Ruler (until 1917).	
Feodora (Feo): A tra	inee wolf wilder	Russian	The Army who is ruled by	
General Rakov: A G	eneral in the Russian Imperial Army	Imperial Army		
Ilya: A soldier in the	Russian Imperial Army	Barracks	A building or group of buildings where soldiers live.	
Alexei Gastevski: A	boy who supports the revolution		A change in the way a country	
Sasha Gastevski: Ale	exei's sister	Revolution	is governed, usually to a	
Valdimir Lenin: Bols	hevik leader	Revolution	different political system and	
Igor Darikev: Imperi	al Ballet School's Ballet Master		often using violence of war.	
		Bolshevik	A supporter of the group led by Lenin that took power in 1917.	
3. K	ey Terminology	Countess	A woman of high social rank or the wife of a Count or an Earl.	
Literary	Defining features of particular literary genres, such as novel, short story, ballad, sonnet, and play.	Wolf Wilder	A wolf wilder is the opposite of an animal tamer: it is a person who teaches tamed animals to fend for themselves, and to fight and to run, and to be wary	
narrative	which uses he/ she or the	Rouble	Russian currency.	
Protagonist	The central character or leading figure in a poem, narrative, novel or any other story. Sometimes can also	St Petersburg	A Russian city, which used to be the Imperial Capital – where the Tsar lived.	
Flotagonist	be referred to as a "hero" by the audience or readers.	Kretsy Jail	A notorious prison in St. Petersburg.	
Plot	The main events of a parrative	Moscow	The capital city of Russia.	
Setting	The location(s) and time a narrative	Borscht	A type of soup made from beetroot.	
Characterisation	A description of a characters traits, thoughts, actions and points of view.	Requisitioners	People employed by the Russian Imperial Army to officially take possessions, food, animals off the general population.	
Foreshadowing	A literary device in which a writer gives an advance hint of what is to come later in the story.	Lapushka	A term of endearment which loosely translates as "little paw"	

War poetry

	Poem forms		Poet's Intentions
Sonnet	Consists of 14 lines, usually about love. Strict rhyme scheme.		The poets show the horrific reality of war
Elegy	A poem of serious reflection, typically a lament for the dead		To highlight patriotic attitudes
Free verse	A poem that does not adhere to any particular rules or patterns.		To show the devastating impact of war on individuals

Poem forms			
Alliteration	Repetition of the initial consonant sound	Enjambment	Where a sentence runs onto the next line.
Caesura	A pause in a line by using punctuation	Juxtaposition	Where two contrasting ideas are put together to develop comparisons.
Couplet	Where two lines rhyme with each other	Metaphor	A comparison in which one thing is said to be another.
Emotive language	Words used to provoke an emotional response.	Onomatopoeia	A word that sounds like its meaning
Personification	Describing objects as though they are alive with their own thoughts and feelings.	Rhetorical question	A question asked to make the reader think, not requiring an answer.

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English

Title			Quotes	
	Anthem for Doomed Youth	What passing- bells for these who die as cattle?	Only the stuttering rifles' rapid rattle	The shrill, demented choirs of wailing shells
	In Times of Peace	"heavy boots stepping over bodies" "bubble bath"	"Are ears so tuned to sirens that the closing of wings causes a tremor?"	"How will it begin to deal with skin that threatens only to embrace?"
	Sick Leave Seigfried Sassoon	When I'm asleep, dreaming and lulled and warm,- They come, the homeless ones	'Why are you here with all your watches ended? From Ypres to Frise we sought you in the Line.'	Are they not still your brothers through our blood?'
	The Soldier Rupert Brooks	That there's some corner of a foreign field That is for ever England.	her flowers to love, her ways to roam, A body of England's, breathing English air	her flowers to love, her ways to roam, A body of England's, breathing English air
	We Refugees Benjamin Zephaniah	I come from a musical place Where they shoot me for my song	We can all be refugees Nobody is safe,	We all came here from somewhere
	Home Warsan Shire	no one leaves home unless home is the mouth of a shark	no one puts their children in a boatunless the water is safer than the land	no one could take it no one could stomach it no one skin would be tough enough

English 4 of 6

Poetry and Non-fiction – War and Conflict – Topic Guide

1. Context Poet: Wilfred Owen (1893-1918) Nationality: English Poem: 'Anthem for Doomed Youth' Other notable poems/collections: 'Dulce et Decorum Est', 'Exposure', 'Strange Meeting', 'Poems' (1920) ed. by Siegfried Sassoon Era: First World War Poet **Biography:** Born 18 March 1893 in Oswestry, Shropshire, After school he became a teaching assistant. In 1913 he went to France for two years to work as a language tutor. In 1915 he returned to England to enlist in the army and left for the Western Front early in January 1917. After experiencing heavy fighting, he was diagnosed with shellshock. He was sent to Craiglockhart War Hospital near Edinburgh. In hospital he met the poet Siegfried Sassoon, who already had a reputation as a gifted poet and shared Owen's views and anger at the cruelty of war. He returned to France in August 1918 and in October was awarded the Military Cross for bravery. Just a week before the end of the war on 4 November 1918, Owen was killed while attempting to lead his men across the Sambre canal at Ors. Poet: Siegfried Sassoon (1886-1967) Nationality: English Poem: 'Sick Leave' Other notable poems/collections: 'Memoirs of a Fox-hunting Man' (1928), 'Memoirs of an Infantry Officer' (1930) Era: First World War Poet Biography: Born in Kent on 8th September 1886. Studied at Cambridge University but left without a degree. In May 1915, commissioned into the Royal Welsh Fusiliers and went to France. He won two medals for bravery. His brother Hamo was killed in November 1915 at Gallipoli. • In the summer of 1916 he was sent to England to recover from fever. Returned to the front, but was wounded in April 1917 and sent home. • On his return he held meetings with several prominent pacifists. • In June 1917 he wrote a letter, published in the Times, criticising the Government for prolonging the war unnecessarily. Robert Graves, friend and fellow poet, prevented him from being court-martialled by convincing the authorities that Sassoon had shell-shock. He was sent to Craiglockhart War Hospital for treatment. • He was posted to Palestine and then returned to France where he was again wounded. spending the remainder of the war in England. He continued to write both prose and poetry until his death on 1st September 1967.

2. Key Terminology				
alliteration	The repetition of the same consonant sound, often at the beginning of words.			
allusion	An expression designed to call something to mind without mentioning it explicitly.			
assonance	The repetition of a vowel sound for emphasis.			
caesura	A rhythmical pause within a line of poetry expressed in writing by a piece of punctuation.			
contrast	Placing words, lines, verses etc. together to emphasise their differences.			
couplet	Two successive lines of verse of which the final words rhyme with another.			
diction	A poet's choice of words such as verbs and adjectives to create a particular effect.			
emotive language	Word choice which is used to evoke emotion in the reader.			
enjambment	The overlapping of a sentence onto the following line, usually to emphasise a word or phrase at the start of a line or verse.			
extended metaphor	A metaphor that is developed throughout a poem.			
form	The way a poem is set out, or a term used to categorise poems which follow particular conventions.			
free verse	Poetry that does not have a regular pattern of rhyme.			
half-rhyme	Partial rhyme, which occurs when similar but not identical sounds are repeated.			

2. Key Terminology continued....

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iambic pentameter A line of verse with five metrical feet, each consisting of one short (or unstressed) syllable followed by one long (or stressed) syllable, resulting in a line of 10 syllables.	
image	A picture created with words, usually used to describe an imaginative comparison often using a simile or metaphor.
imagery A literary device used to create a particular image to the key ideas/messages of themes in a text.	
juxtaposition	When two or more ideas, images, words etc. are placed side by side to develop comparisons and contrasts.
metaphor	A comparison in which one thing is said to be another.
onomatopoeia The use of a word that sounds like its meaning.	
pace	The speed at which a poem flows.
persona	The 'speaker' in a poem who is a created character, not the poet.
personification	The attribution of human feelings, emotions, or sensations.
refrain	A recurring phrase or set of lines.
repetition A literary device which repeats the same word or few times to make it memorable.	
rhetorical questionA question asked for dramatic effect or to make a poin rather than to receive an answer.	
rhyme The pattern of a poem's rhyme, often identified usir e.g. ABABCC.	
rhythm The 'movement' of the poem as created through the	

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Year 7 | Knowledge Organiser

10

sibilance	A type of alliteration that uses soft consonants like s, sh, ch, th. They create hissing sounds.	
simile	A comparison that uses 'like' or 'as'.	
stanza	A group of lines forming a unit in a poem.	
structure	The way a poem is organised.	
symbolism	The use of symbols to express ideas or qualities.	
tone	Feelings or ideas suggested by the language used by the poet.	
verse	Another word for poetry; a group of lines forming a unit in.	
volta	A 'turning point' in a poem.	
	FORM	
villanelle	A nineteen line poem consisting of five units of three lines, rhymed or unrhymed, followed by a quatrain.	
sonnet	A poem that has 14 lines and a particular pattern of rhyme (ABAB CDCD EFEF GG).	
elegy	A poem of serious reflection, typically a lament for the dead.	
ballad	A narrative poem which is typically written in short stanzas.	
dramatic nonologue	A poem in which an imagined speaker addresses a silent listener, usually not the reader.	

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Ozymandias	"Colossal wreck"	"Look on my works"
The Prelude	"a huge peak, black and huge"	"trouble to my dreams"
Remains	"his bloody life in my bloody hands"	"the drink and drugs won't flush him out"
London	"mind-forged manacles"	"marks of weakness"
Tissue	"might fly our lives like paper kites"	"turned transparent with attention"
Poppies	"Gelled blackthorns of your hair"	"leaned against it like a wishbone"
The Emigree	"sunlight"	"time rolls its tanks"
Kamikaze	"powerful incantations"	"which had been the better way to die"
Exposure	"merciless iced east winds that knive us"	"But nothing happens"
My Last Duchess	"I gave commands; then all smiles stopped"	"I choose never to stoop"
Bayonet Charge	"His terror's touchy dynamite"	"listening between footfalls for the reason"
Checking out me History	"Blind me to me own identity"	"Carving out me own identity"
Charge of the Light Brigade	"The jaws of Death"	"theirs not to make reply"
Storm on the Island	"a huge nothing that we fear"	"spits like a tame cat turned savage"
War Photographer	"A hundred agonies in black and white"	"a half-formed ghost"

Structure and form		
First person	The speaker tells the story using 'I' and 'we'	
Third person	The story is told by someone watching the action (omniscient narrator)	
Stanza	A paragraph in a poem	
Irregular Rhyme Scheme	The rhyme scheme changes	
Regular Rhyme Scheme	The rhyme scheme remains consistent	
Enjambment	There isn't punctuation at the end of a line or sentence making ideas run into each other	
Caesura	There is an excess of punctuation increasing the pauses and separating the ideas.	
Dramatic monologue	A story told in first person and chronological order	
Sonnet	A fourteen-line poem that often has a mood change between lines 9 and 11.	

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What is seasonal food?

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Seasonal food is the time of year when food is at its best, in terms of flavour or harvest. Many foods are available all year, as they are imported from other countries. When local seasonal food is available it tends to be fresher and cheaper - there has been less travel/storage from farm to fork.

Why eat the seasons?

There are a number of good reasons to eat more local, seasonal food:

- To reduce the energy (and associated CO2 emissions) needed to grow and transport the food (diesel, petrol, electricity etc.) we eat to avoid paying a premium for food that is scarcer or has travelled a long way
- To support the local economy (our local area jobs, businesses etc.)
- To reconnect with nature's cycles and the passing of time. But most importantly, seasonal food is fresher and so tends to be tastier and more nutritious.

Why seasonal food?

Foods are usually harvested when they are at their peak and typically have the most flavour and nutrients, so the food tends to be tastier, healthier and better for the environment. Take a look at the seasons to see when different foods are at their best. Eat seasonal foods.

Hygiene	Safety
 Wash hands before beginning practical work. Tie long hair back. Do not wear nail varnish. Remove jewellery. Always wear an apron. Do not cough or sneeze on food. Do not lick fingers or utensils. Make sure all equipment is washed and dried thoroughly. Clean all worktops at the end of the lesson. 	 Do not run in the kitchen. Use safe chopping techniques such as the bridge hold and claw grip. Mop up spills immediately. Turn pan handles to the side of the hob. Take care with electrical items. Use oven gloves to remove food from the oven. Report any problems to the teacher. Do not drop sharp knives into your washing up water. Wash them carefully using a cloth and soapy water over the sink.

What is the Eatwell Guide?

The Eatwell guide is a guide that shows you the different types of food and nutrients we need in our diets to stay healthy.

What is the Eatwell Guide?

A poor diet can lead to diseases such as heart disease, Type 2 Diabetes, strokes and high blood pressure, and can stop us from fighting off infections.

What are the sections on the Eatwell Guide?

- 1. Fruit and Vegetables.
- 2. Carbohydrates potatoes, bread, rice, pasta and other starchy foods.
- 3. Dairy and alternatives milk, cheese and yogurt.
- 4. Protein beans, pulses, fish, eggs and meat.
- 5. Fats oils and spreads.

What are the functions of the main nutrients found in the Eatwell guide?

Carbohydrates – To provide us with energy. Proteins – To help maintain and grow muscles. Fats – To help the body absorb certain vitamins. Vitamins and Minerals (found in lots of fruit and vegetables) – To ensure your body works properly and stays healthy.

Cutting Techniques

To demonstrate safety skills when using knives, there are 2 cutting techniques we should use:

Claw grip







Food Technology

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Dietary Fibre

Dietary fibre is a type

exclusively in plants.

Unlike other types of

carbohydrate, it is not

absorbed in the small

intestine to provide energy.

by the bacteria in the colon

a small amount of energy.

(large intestine) and provides

However, it is fermented

of carbohydrate found

Dietary fibre helps to:

- Prevent constipation;
- Increase the feeling of fullness and control energy intake;
- Reduce blood cholesterol levels.

Sources of dietary fibre

Dietary fibre is found in plant food, such as::

- Wholegrain cereals and cereal products.
- Oats
- Beans.
- Lentils.
- Fruit and vegetables.
- Nuts and seeds.

Basil	Black Pepper	
Bay	Cardamom	
Chives	Cayenne pepper	
Coriander	Chilli	
Dill	Cloves	
Fennel	Coriander	
Mint	Cumin	
Parsley	Ginger	
Rosemary	Mustard seeds	
Sage	Nutmeg	
Thyme	Turmeric	
Oregano	Saffron	

Herbs

100

Spices



Sugar
We're all eating too much sugar While some kidd look flow an the outplide, how much sugar call had for an the build up on harmful fat on the isside that we can't set harmful fat on th
What's the maximum daily amount of sugar we can have? Image: super

COOKI

Food Technology 4 of 4

Method	How does it work?	Suitable foods
Boiling	Cooking food in water at 100°C.	Eggs, rice, pasta, vegetables etc.
Braising	Sealing meat/poultry in hot oil, then cooking slowly in a covered dish with a little liquid.	Meat, poultry, vegetables e.g. carrots, red cabbage.
Poaching	Cooking food in a shallow pan of water or wine at just under boiling point with only the occasional bubble visible.	Chicken, fish, eggs, fruit (e.g. pears).
Simmering	Means cooking food in a liquid just below boiling point, so that it bubbles gently.	Vegetables, soups, stews, fruit, meat sauces etc.
Steaming	Means cooking food in the steam rising from a pan of boiling water beneath.	Green vegetables, white fish, dim sum dumplings, sponge puddings, rice.
Stewing	Cook food by simmering gently in a covered pot in the oven, on a hob or in a slow cooker.	Meat, poultry, sausages, casseroles, fruit.
Dry frying	Means cooking food that naturally contains oil or fat in a frying pan without adding oil.	Minced meat e.g. beef, lamb, pork, nuts, seeds, spices.
Baking	Cooking food in a hot oven.	Cakes, breads, biscuits, cookies, scones, pastries, potatoes, pizzas, desserts.
Grilling/ Barbecuing	Cook foods by intense radiant heat on a metal grid or grill rack, underneath a heated grill element in a cooker or above the glowing charcoal/flames in a barbecue.	Meat and poultry, oily fish, sausages, burgers etc.
Roasting	Cook food in some fat or oil in the oven.	Meat & poultry joints, root vegetaables, some fruits e.g. plums, nuts.
Toasting	Cook starch-based food with dry heat from a grill or flame.	Bread, buns, crumpets and other starch-based product, nuts, seeds.
Sautéing	Frying food gently in a little oil in order to soften the food and develop the flavour.	Onions, leeks, peppers, meat/ poultry and vegetables etc.
Shallow frying (pan frying)	Frying food in a shallow frying pan in a little oil.	Eggs, fish (white or oily), bacon, burgers, sausages, meat cuts, fish cakes, onions etc.
Stir Frying	Frying food for a short time in a wok, using very little oil and stirring all the time.	Finely cut vegetables, seafood, meat, poultry etc.
Microwaving	Cooking food by electromagnetic waves, called microwaves, in a microwave oven.	Sauces, cake & sponge pudding mixtures, scrambled eggs, vegetables, fruits, fish, soups etc.
Induction Cooking	A method of cooking where heat energy is transferred Stir fry, omelettes, soups, pasta. quickly to a pan through a specifically designed ceramic cooking surface, over an induction coil that creates a magnetic current. Pans that can be used on an induction hob must be made from metals that contain iron.	Stir fry, omelettes, soups, pasta.

Mapping

Map skills

M ab	aps are created by cartographers to help people to navigate. Find out out basic mapping using compass points, grid references, title, key, scale d interpreting Ordpance Survey mans
Th m sc	e basics of mapping (KPI 7.1.3 demonstrate use of Ordinance Survey ap skills, including 4 & 6 figure grid references, points of the compass, ale, distance, symbols & contours):
M ca int	aps are representations of the world created by people called rtographers to help other people navigate the world. Maps contain formation tailored to a specific purpose.
ŀ	A road map , for example, contains information that helps the reader get from one place to another using a vehicle.
ŀ	The maps found in a geographical atlas will contain information of less interest to a road user, such as how the land in a place is used, the population density and the political boundaries that exist between regions, states and nations.
Th m	ere are five fundamental things you need to be familiar with to read a ap successfully:
•	Compass directions
•	Grid references
•	Map's key
•	Title
•	Scale
	Compass Directions
Co mi rh at	mpass directions are vital for finding your way around a map. There are any ways to remember where each direction goes. You probably learnt a yme or a phrase to help you remember - if not, here's one now. Starting the top and moving clockwise the directions on a compass or map are:
1.	North - Naughty
2.	East - Elephants
3.	South - Squirt
4.	West - Water

Year 7 | Knowledge Organiser

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Grid References

OS maps are divided into numbered squares. These squares can be used to give a place a four or six-figure grid reference. It is important that you know both four-figure and six-figure grid references.

Eastings:

Eastings are lines that run up and down the map vertically. They increase in number the further you move east (or right). You can use them to measure how far to travel east.

Northinas:

Northings are lines that run across the map horizontally. They increase in number the further you move north (or up the map). You can use them to measure how far to travel north.

Remember[.]

- Numbers along the bottom of the map come first and the numbers up the side of the map come second.
- The four-figure reference **2083** refers to the **square** to the **east** of Easting line 20 and **north** of Northing line 83.
- The six-figure reference **207834** will give you the exact point in the square **2083** 7/10s of the way across and 4/10s of the way up.

The six-figure reference on the map below shows a church in **Bamford**.



Map Titles, Key And Scale

Just like a key to a door, the key helps you to unlock the information stored in the colours and symbols on a map. You must understand how the key relates to the map before you can unlock the information it contains. The key will help you to identify types of boundaries, roads, buildings, agriculture, industry, places of interest and geographical features.	GENERAL FEATURES • Rote of wanning Current of the well lower states of wanning • Will lower states of wanning • Badlag: inportant badlag • Glasshouse • States control to badlag • Bas or notant station • T. T. A. Upfnhauer, stated lipshouze bases • Hind party, water states • Hind party, water states • Hind party, water states • Destrop • Destrop	Converge frances Converge frances Converge frances Converge frances Converge Converg

Scale

The scale of a map allows a reader to calculate the size, height and dimensions of the features shown on the map, as well as distances between different points. The scale on a map is the ratio between real life sizes and how many times it has been shrunk to fit it on the map

On a 1:50,000 scale map, 1 cm on the map represents 50,000 cm on the ground (= 500 m or 0.5 km).

Ordnance Survey maps, the most common type of map in the UK, come in several scales.

- Travel maps have a scale of 1:125,000. This means 1 cm on the map represents 125,000 in the real world or 1 cm = 1.25 km. These are used by drivers going long distances.
- Landranger maps are 1:50,000 (1 cm = 500 m). These are useful for drivers going shorter distances.
- Explorer maps are 1:25.000 (1 cm = 250 m). These are useful for walking and other outdoor pursuits.
- Landplan maps are 1:10,000 (1 cm = 100 m). These show individual streets clearly and might be used by town planners.

Title

Make sure you read the title of a map before you start to use it. This will give you a general idea about the information it stores. While it may appear a straightforward thing to do, under exam conditions, it is easy to confuse different maps or not use the one that is most useful.

Ordnance Survey maps

You will be asked to interpret maps to find out specific information. Being able to distinguish between different types of land use on an Ordnance Survey (OS) map will help you interpret maps during your exams. Here are some things you should brush up on:

- Make sure you can tell the difference between urban and rural land use. Start by looking at the key. Are the features in the key related to the countryside or to towns?
- Look out for features of the urban landscape that are represented in symbols on the OS map. Start by looking at modes of transport (e.g., junctions of main roads, railways, ports and airports).
- Look for rural features. Study the key carefully to see what different areas of shading on the map represent. For example, different types of farmland will be shaded differently.
- Study the relief of the land on your OS map by looking for the contour lines. Contours will show you where the hills (elevations) and valleys (depressions) are on the map. Contours will often show changes in height of 5 or 10 metres. The closer the contours are

together the steeper the slope is. If the contours are far apart. vou might be looking at a flat flood plain. On the map below the contours in square 1981 are guite close together - indicating a fairly steep gradient.



World Development

Geographers use social, economic and political indicators to measure development in countries throughout the world. Developed countries have better standards of living than less developed countries.

Contrasts in development (KPI 7.3.1 To be able to describe the distribution of developed, developing and newly emerging countries):

Generally, most more economically developed countries (HICs) are in the northern hemisphere and most less economically developed countries (LICs) are in the southern hemisphere. There are exceptions such as Australia and New Zealand. The Brandt Line is an imaginary division that has provided a rough way of dividing all of the countries in the world in to the rich north and poor south.



Many countries in the poor south have become more developed since the 1980s and so many people now think that the Brandt line is no longer useful.

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For example, some countries that are considered to be 'developing' have experienced rapid growth (especially in manufacturing and tertiary industries) in recent years. We call these countries the newly industrialised countries (NIC/ NEEs) e.g. China, Brazil and Mexico.



In addition to this there are also the BRICS (Brazil, Russia/ India/ China & South Africa) & MINT (Mexico, Indonesia, Nigeria & Turkey) countries that are also rapidly developing.

Why have NIC/ NEEs grown?

- Strong, stable government.
- A switch from agricultural to manufacturing and service jobs.
- A focus on exports and trade.
- Products are kept cheap and competitive by using cheap, well disciplined workers.
- Profits are invested in developing more industries and buying home produced goods - a multiplier effect.
- Over time the workforce becomes better educated and more skilled.

Development indicators

(KPI 7.3.2 To be able to identify how development is measured through a single development indicators and HDI):

One of the key questions to ask about development is the standard of living of the people who live in a country. There are many different ways to measure the quality of life or level of development of a place. These are called development indicators.

Economic indicators that affect standard of living: Indicators Examples of measures Gross Domestic Product (GDP) - the total value of all goods and services produced in a country Gross National Product (GNP) - GDP plus earnings from foreign investment Wealth GNP per capita - GNP divided by the total population The types of jobs people do differ

Jobs

between countries. In more

(HICs) more people work in

jobs such as manufacturing.

economically developed countries

tertiary and guaternary jobs. In less

economically developed countries

(LICs) more people work in primary

jobs such as farming and secondary

ocial multators that affect standald of living.							
Indicators	Measures	Statistics					
	Life expectancy	UK = 80, Afghanistan = 45					
	Death rate: deaths per 1,000 per year	Australia = 6.4, Mozambique = 18.8					
Health	Infant mortality rate	Sweden = 2.5, Pakistan = 75.2					
	Birth rate: births per 1,000 per year	Germany = 8.1, Malawi = 37.9					
Education	Percentage in primary education						
	Literacy rate	Korea = 100%, Mali = 26%					
	Equal opportunities for women						
Equality	Fair distribution of wealth						
	Freedom of speech, e.g. people can vote						
Population and Vital Statistics Report, UN, updated March 2011)							

Costal indicators that offers standard of living

Key Terms

Life expectancy - The average number of years a person is expected to live in a particular place.

Infant mortality rate - The number of children who die before the age of one. Literacy rate - Percentage of people who can read and write.

Measuring development is not straightforward. It can be misleading to look at one single wealth indicator like GNP per capita because the wealth of a country might not be shared out equally. Also, one country might be seen as very developed when using one indicator, but far less developed when using a different indicator. Therefore, geographers use more than one indicator when measuring development. The United Nations now uses a composite indicator called **HDI** (Human Development Index) which is made up of a number of important measures, such as:

- GNP per capita INDUSTRY
- Number of years schooling EDUCATION
- Life expectancy HEALTH

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Less useful indicators for development Some pieces of data do not help to measure development For example, the size of a country is not very helpful because some large countries are very poorly developed while other large countries are very advanced. Also, high population density can be associated with both well developed (Hong Kong) and less developed (Bangladesh) countries.



Factors affecting development (KPI 7.3.3 To explain factors that affect development):

There are lots of reasons why some countries are much less developed than others. The reasons are complex and vary from place to place. **Physical factors:**

- Climate many of the poorest countries are in the tropics where it is hot, the land is less fertile, water is scarce, and diseases flourish.
- Natural resources some raw materials are valuable and can help a country develop if they have the resources to collect and process them, e.g. oil, diamonds, forests and gold.

Historical/political factors:

- Trade goods are traded on a global scale but it is difficult for poor countries to compete. Some believe the rules of trade are unfair. Rich countries can raise tariff barriers to stop cheap imports undercutting their own goods. In the past some countries made money by colonising other countries and using their raw materials to produce manufactured goods.
- Corruption/poor management countries need strong, stable and honest leaders to help them develop.
- War wars use up resources and make it difficult to produce goods and trade.

Social factors:

- **Discrimination** some groups may have fewer opportunities, and this can hold back overall development, e.g. if women are not educated to the same standard as men.
- Population overpopulation occurs where population growth outstrips resources.

The United Nations Millennium Goals:

The United Nations is an organisation of independent countries formed in 1945 to work for international peace and security. In 2000, the United Nations agreed on some Millennium Goals. Every country and all the world's leading development organisations agreed to these. The aim was to achieve them by 2015. The Millennium Goals are to; end poverty and hunger, universal education, gender equality, child health, maternal health, to combat HIV/AIDS, environmental sustainability & global partnership. There has been success in some areas but there is still a great deal of work to do. In 2008 child mortality in developed countries was 6 in 1000 per year but in developing countries it was still high - 72 in 1000 per year. Strategies to improve Quality of Life (KPI 7.3.4 Assess a strategy that be used to improve the quality of life in a developing country region):

Aid - Fairtrade Case study

Fairtrade is about better prices, decent working conditions and fair terms of trade for farmers and workers in the developing world. The scheme ensures that commercial companies pay stable fair prices for products.

This enables producers to plan, improve their businesses, develop skills and increasingly, adapt to climate change.

As part of the scheme, Fairtrade provides a social premium, life transforming funds to be used to benefit the community through schools, roads, health clinics and more.

"Our mission is to connect disadvantaged farmers and workers with consumers, promote fairer trading conditions, and empower farmers and workers to combat poverty, strengthen their position and take more control over their lives."

Fairtrade Facts

- The Fairtrade system currently works with over 1.70 million farmers and workers.
- There are 1,707 Fairtrade producer organisations across 73 countries.
- More than 2,400 companies have licensed over 35,000 Fairtrade products.
- Fairtrade sales reached over £8.9 billion (2018 figure) from 158 countries.
- On average each Fairtrade producer organisation receives £108,000 in Fairtrade premium.
- 25% of all Fairtrade farmers and workers are women and Fairtrade Standards are designed to prevent gender inequality, increase female participation, and empower more women and girls to access the benefits of Fairtrade.
- 5 hectares is the average size of the plot cultivated by a Fairtrade farmer.
- Small producer organisations spend 50% of the Fairtrade premium in services for farmers and the provision of agricultural tools and training and 50% in education services and housing improvements.
- Environmental protection is ingrained in Fairtrade: farmers have to improve soil and water quality, manage pests, avoid using harmful chemicals, manage waste, reduce their greenhouse gas emissions and protect biodiversity.

Fairtrade in the UK

- Fairtrade products are now sold in more than 120 countries across the world with over 4,500 products available for purchase.
- 82% of UK shoppers care about Fairtrade (2018 figure) and 84% believe in the importance of third-party certification.
- 93% of the UK public recognise the Fairtrade mark and 83% trust it when deciding whether a product is ethical.
- One in four shoppers now regularly buy several Fairtrade products and one in three bananas sold in the UK are Fairtrade.
- In 2018 (latest figure available) over £34 million worth of Fairtrade premium was generated in sales in the UK.

Micro-finance - Oxfam 'the gift of a cow' Case Study

Microfinance is a banking service provided to unemployed or low-income individuals or groups who otherwise would have no other access to financial services. Microfinance allows people to take on reasonable small business loans safely, and in a manner that is consistent with ethical lending practices.

An example of micro-finance is the gift of a cow, this allows the farmer to have control over the aid that he, or she receives. For example, the finance provides training for farmers, to help them grow more crops, raise more animals and earn more income in the face of climate change.

Living in poverty, families can struggle to put food on the table and support their loved ones. But the chance to earn a decent income can change everything – and help people to beat poverty for good.

It's why Oxfam assists with setting up farming co-operatives and helping farmers with brilliant, poverty-busting ideas to share them with others. It all starts with gifts like this one. This gift supports our Making a Living (ML) projects.



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•	Geography Command Words	
	Identify/ State/ Name	This needs a simple, but accurate, ar hazard is an earthquake'.
•	Label	You need to use a ruler and accurate thoroughly so you get full marks.
	Draw	Produce a drawing, diagram or sket
	Outline	Set out the main points of the answ due to the density of the oceanic cru
	Compare	Identify similarities and/ or difference HIC & LIC urban areas are'.
	Describe	Use factual information to say what to learn key facts and data. 'The prir and buildings are destroyed. For exa building is city of Kathmandu were
	Explain	Give reasons based on fact, 'this me
	To what extent	This is often used with 'assess' and r the primary and secondary effects o
	Evaluate	When you evaluate you use evidence showing the positive of the improve infrastructure have'.
	Discuss	Use key points to open a discussion, a particular issue or strategy. 'The pot that?'.
	Justify	You need to add evidence to build y

www.rrma.org.uk

What you need to do

inswer. If you revise you will score marks! 'An example of a tectonic

tely label a picture, graph or diagram. Read these question

tch that is recognisable – it needs to look what has been asked!

ver. 'At a subduction zone the two plates move towards each other, rust it ...'.

ices by using factual data or examples. 'The key differences between

t something is, this means you need good subject knowledge and mary effects of a tectonic hazard are that people lose their lives ample in Nepal in 2015 there were 8,841 deaths and the historic destroyed ...'.

eans that/ this is because/ this leads to'.

requires you to use information to compare events. 'If I compare of Typhoon Haiyan the evidence shows me that...'.

ce to formulate your answer. 'When I evaluate the figure ed transport networks in Lagos it shows that the improvements in

n, it often means that you need to identify positives & negatives of positives of developing a hot desert are ...?..., however a negative is

You need to add evidence to build you answer. 'The 3P's had a significant impact on the 2010 volcanic eruption in Iceland. Evidence to support this is that ...'.

World Of Work of 8

employment sectors. (B)

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2. Many factors influence the type of employment sector which will be found within a particular country. (C) Furthermore, industrial location is influenced by some key factors, which are more important for some industries in comparison to others. (D)

1. The world of work can be classified into four different

4. Employment structure within countries varies based upon the level of development. (E)

Background

- 5. However, employment structures are not fixed, just like in the UK they can change over time. (F)
- 6. Tourism is a rapidly growing tertiary industry worldwide. (G)
- 7. Tourism can bring both positive and negative impacts for the host country. (H)

A Classifications Of Employment (2)						
	Employment	When people are in work, receiving a wage and paying tax.				
	Unemployment	When people are not in work, therefore do not receive a wage and do not pay tax.				

B Different employment sectors (4)						
Primary sector	Industries which collect raw materials such as; farming, logging, oil rigging, mining, quarrying etc.					
Secondary sector	Industries which manufacture goods into products such as; car manufacturers, food processing plants, toy assembly plants, builders etc.					
Tertiary sector	Industries which provide a service such as; teaching, accounting, health care, sales assistants etc.					
Quaternary sector	Defined as hi-tech, research and design. They include hardware and software engineers and pharmaceutical companies.					

C Influences on employment structure (5)			E Emp	oloy	ment structure differences (3)		
Imports	Goods brought into a country.	Developing countries			Large primary sector, growing secondary sector and a moderate tertiary sector.		
Exports	Sending goods to another country for sale.	Emerging			They have a large secondary sector, rapidly falling primary sector and		
Industrialisation	When a country begins to move from primary employment to secondary employment, with a rise in manufacturing	Developed countries		l	growing tertiary sector. A large tertiary sector, a growing quaternary sector, both secondary and primary employment is low.		
Mechanisation	When machinery begins to do the jobs which once required humans		F Employ	me	nt structure change in developed countries (2)		
Disposable income	The money a person has left to spend after they have paid all of their bills.	Falling 1. Cheaper to import. Primary And 2. Mechanisation has taken jobs. Secondary 3. Raw materials have been exhaustion			 Cheaper to import. Mechanisation has taken jobs. Raw materials have been exhausted in certain areas. 		
Factors which inc	influence the location of dustry (5)	Growing Tertiary Sector (2)			 Disposable income has increased, so a greater demand for services. A large public sector e.g. health 		
Raw materials	Natural resources that are used to make things.				and education, due to a high tax revenue.		
Transport links Transport links which allow goods and workers to be transported in and out of industries.			(G	Features of tourism (3)		
Labour	Workers, employed people. A place where raw materials or goods are sold.		Tourist	A ple	person who is visiting a place for easure.		
Market	A place where raw materials or goods are sold.		Positive multiplier effect	The are ind	e introduction of a new industry in an ea also encourages growth in other dustrial sectors, leading to further growth.		
Footloose	Industries which are not tied to a location due to natural resources or transport links.		Butler model	Sho sta sta	ows how tourist resorts go through six iges, from discovery, growth, success, ignation to rejuvenation or decline.		
	V Tour	ricm	n in Vonya				
	Where?	T	he Maasai Ma	ra N	lational Reserve, in southern Kenya.		
Positive (3)					Negative (4)		
 Tourism provides 11% of Kenya's GDP. The National Reserve is protected, saving many animals e.g. cheetahs. Large infrastructure projects have been funded by overseas companies e.g. new road networks. 			Mini-buses are Shadows from Only 2% of the lost to tour co Animals are be from hunting,	e driv n hot e pro mpa eing imp	ving across the Savannah. t air balloons are scaring the wildlife. ofit stays with the local people, much is niles. fed by tourists, which is stopping them acting the food chain.		
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The Norman Conquest



	Кеу Реор
Edward the Confessor	An Anglo-Saxon king whose death trig
Harald Hardrada	A warrior Viking king who made a clair
Harold Godwinson	The last Anglo-Saxon king who was kil
William, Duke of Normandy	A French duke who conquered Englan

iggered the Norman invasion of England in 1066

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- im for the English throne in 1066
- lled at the Battle of Hastings in 1066
- nd in 1066, becoming William I, King of England

Key Words:							
AD Anno Domini, the years before Christ was born	Coronation A ceremony where the king is officially crowned	Motte and Bailey Castle A simple castle with a man-made hill surrounded by a clear defensive area					
Anglo-Saxons Tribes that invaded England from 400 AD	Domesday Book A book ordered by William detailing the possessions of every village and town in England	Normans William's nobles brought over from Normandy					
Archbishop The most senior and powerful churchmen in the country	Feudal System The structure of medieval society	Oath A sacred promise witnessed by God					
Baron The highest rank of medieval society	Fortification A building to defend against attack	Peasant The majority of Englishmen, at the bottom of the Feudal System, who had to work the land for their lord					
Bayeux Tapestry A cloth depicting William's conquest	Fyrd Anglo-Saxon part-time soldier	BC Before Christ, the years before Christ was born					
Harrying To repeatedly attack somewhere or someone	Shield Wall A barrier created by soldiers with their shields	Cathedral A large and impressive church in which a bishop is based					
Hierarchy A form of social structure where people are ranked according to their status, from highest to lowest	Succession A new monarch taking over the throne from the last monarch	Cavalry Group of soldiers who fought on horseback					
Survey To examine or investigate somewhere	Chronology The order that past events happened in	Illegitimate Someone born outside of marriage					
Tactic A carefully planned strategy in battle	Claimant One of three challengers to the throne in 1066	Knight Soldiers on horseback who belonged to the nobility					
Viking Seafaring warriors and invaders from Scandinavia	Revolt To fight in a violent manner against a ruler	Clergy Men who worked within the church e.g. priests, bishops, archbishops, monks					
Monarch King or queen of a country	Witan Collection of Anglo-Saxon noblemen who advised the king	Huscarls Professional Anglo-Saxon soldiers					

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The Norman Conquest Knowledge Outcomes									
c'		• •	1	Which Anglo-Saxon king died in 1066 leaving no clear heir?	Edward the Confessor	19	What did William and his troops do on their way to London after the Battle of Hastings?	Burnt crops and villages	
s.	Motte and Bailey Castle A simple castle		2	Which Anglo-Saxon earl was crowned by the Witan following the death of the king?	Harold Godwinson	20	When was William crowned King of England?	Christmas Day 1066	
iere the king is	with a man-made hill surrounded by a clear defensive area	 • • • 	3	Which part of northern France was William the Duke from?	Normandy	21	What did William and his nobles build across England?	Motte and Bailey castles	
dered by William every village	Normans William's nobles brought over		4	What did William say happened in 1051?	Edward promised him the English throne	22	What did William do with the land belonging to Anglo-Saxon nobles?	Gave it to the Norman knights	
	from Normandy		5	What was Harold supposed to have done in 1064?	Swore an oath to support William	23	How did Harold Godwinson's family respond to William being crowned?	Raised a revolt from Exeter in 1068	
e of	Oath A sacred promise witnessed by God		6	Which important Christian figure supported William's claim?	The Pope	24	What happened in 1069, following a revolt in Durham?	The harrying of the north	
lefend	Peasant The majority of Englishmen, at the bottom of the Feudal System, who had to		7	Which Viking warrior king also claimed the English throne?	Harald Hardrada	25	Who was at the top of the Feudal System?	The king	
	work the land for their lord		8	Who invaded England in September 1066?	Harald Hardrada and Tostig Godwinson	26	Were barons or knights higher in the Feudal System?	Barons	
soldier	was born		9	What battle did Harold's army fight in the north?	Battle of Stamford Bridge	27	What important book did William commission in 1086?	Domesday Book	
d by soldiers	Cathedral A large and impressive church in which a bishop is based		10	What suddenly changed in September and allowed William to sail the Channel and invade?	The wind	28	What was the primary reason William commissioned this book?	Taxation	
taking over the	Cavalry Group of soldiers who fought on		11	In what month and year did the Battle of Hastings take place?	October 1066		In what order do historians put historic dates into?	Chronological	
:h	horseback		12	Why did Harold hurry into fighting the Normans?	He wanted to catch them by surprise		What does BC mean?	Before Christ	
past events	Illegitimate Someone born outside of marriage		13	What was Harold's force of 3,000 professional soldiers called?	Huscarls		What do we call a period of 100 years?	A century	
engers to the	Knight Soldiers on horseback who		14	What were William's heavily armoured soldiers on horseback called?	Knights		What is it called when historians form their own views on what happened in the past?	An interpretation	
nanner against	Cleray Men who worked within the church		15	Who had the stronger army at the start of the Battle of Hastings?	William	33	What do historians use to understand what happened in the past?	Evidence	
namer agamse	e.g. priests, bishops, archbishops, monks		16	What is the 70m long embroidered cloth depicting William's victory?	Bayeux Tapestry	34	What are the three main elements of a source we must analyse?	Content, origin, purpose	
axon noblemen	Huscarls Professional Anglo-Saxon soldiers	 • • • • • 	17	What did Harold's army form that William's army could not break through?	Shield wall		In which part of the source can we find who wrote or made it?	The origin	
		• • • • •	18	What tactic did William use to get the Saxons off from the top of the hill?	A false retreat	36	What do we call it when historians are trying to understand the reasons why an event in history happened?	Causation	

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Introduction to Programming

Programming Keywords Variables store information and can be compared to a box that stores things, for example: Variable Name = "Claude"

Algorithm	A set of step by step instructions used to solve a problem.			
Flowchart	A visual representation of an algorithm.			
Assignment	The process of storing a value inside a variable, for example: Password = "OXJ91mau"			
Expression	A combination of operators and operands that is interpreted to produce some other value.			

Accessing Python Development Environment

To access our Python programming environment, open your web browser and go to www.online-python.com



Comparison Operators				
Operator	Meaning	Example	Evaluates to	
==	Equal to	7==7	True	
!=	Not equal to	6!=7	True	
>	Grander than	7>6	True	
<	Less than	5>6	False	
>=	Greater than or equal to	6>=8	False	
<=	Less than or qual to	7<=7	True	

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Arithmetic Operators				
Operator Meaning Example				
+	Addition	num1 = num2 + num3		
-	Subtraction	num1 = num2 - num3		
*	Multiplication	num1 = num2 * num3		
/	Division	num1 = num2 / num3		

Data Types				
Data Type	Example	Description		
String	x = "Hello"	Stores combinations of any characters – letters, numbers and symbols		
Integer	x = 11	Stores whole numbers		
Float	Float x = 11.5 Stores decimals			
Boolean	x = True	Stores values True or False		

	If Statements		
Python	Pseudocode		
x = 3 if x == 1: print("x is 1")	store value 3 in variable x if value in x is equal to 1, then: display string "x is 1" on screen		
	Ifelse Statements		
Python	Pseudocode		
x = 3 if x == 1: print("x is 1") else: print("x is not 1")	store value 3 in variable x if value in x is equal to 1, then: display string "x is 1" on screen execute if the previous condition is not true display string "x is not 1" on screen		
	ifelifelse statements		
Python	Pseudocode		
$\begin{array}{l} x = 10 \\ \text{if } x >= 100: \\ \text{print}("x \text{ is } >= 100") \\ \text{elif: } x >= 50: \\ \text{print}("x \text{ is } >= 50") \\ \text{elif: } x >= 10:: \\ \text{print}("x \text{ is } >= 10") \\ \text{else: } \\ \text{print}("x \text{ is } < 10") \end{array}$	store value 10 in variable x if x is equal to or larger than 100, then: display string "x is >= 100" on screen if x is equal to or large than 50, then: display string "x is >= 50" on screen if x is equal to or large than 10, then: display string "x is >= 10" on screen execute if the previous conditions are not true display string "x is < 10" on screen		

Selection

Loops				
While Loops For Loops				
count = 0 While count < 9: print("The count is:", count) count = count + 1 print("Thank you")	While loop repeats while the given condition is true. It tests the condition every time.	Fruits = ["orange","apple","mango"] for i in fruits: print(i) print(i)	For loop repeats a set number of times. In this case, it will happen 3 times – one for each fruit.	

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Flowchart Symbols				
Symbol Meaning				
	Start/End			
\longrightarrow	Controls the flow of the program			
	Input/Output			
	Process			
\Diamond	Selection/Decision			
	Subprogram			
	Comments			
To write a comment that will be omitted by Python when the program is running, use # symbol, for example:				

Programming

Computational Thinking

Computational thinking is a set of problem-solving methods that involve expressing problems and their solutions in ways that a computer could also execute.

Other Computational Methods:

Data Mining	Data Mining Algor		Pattern Recognition	
This aims to spot trends and patterns in data.	A rough list of instructions used to solve a problem.		Used to find similarities and make problems easier to solve.	
	Variables an	d Constants		
Dnum1 = int(input("Enter first number")) num2 = int(input("Enter second number")) num3 = 10 print(num1+num2+num3)				
Variables		Constants		
is used to store a value that can change at any point during the program. For example, in the code above, num1 and num2 are variables because the input could be different every time the program is run.		A named storage location that is used to store a value that cannot change automatically and will remain the same each time to program is run. It can only change if the user manually changes the value. For example, in the code above num3 is a constant.		
	Programmin	g Constructs		
Sequence refers to a logical order of items. In the context of programming, algorithms always use a sequence because it is written line by line.	Selection is t in which and depends on a certain con met. In prog selection (IF) are common for this.	he process butcome whether dition is ramming, statements ly used	Iteration is the process of repeating steps. In programming, there are two common types used: FOR Loops and WHILE Loops.	

Abstraction

Abstraction is the removal of unnecessary elements so that the important parts remain, thus making the problem easier to solve.



Decomposition

Decomposition is the process of taking a problem and breaking it down into smaller chunks (known as sub-tasks



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Online Safety

Programming Keywords

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Cyberbullying is an extremely unpleasant and upsetting experience. There are several authorised websites that offer advice on how to stay safe online and what to do if you find yourself in this situation:				
BBC Webwise	http://www.bbc.co.uk/webwise			
Bullying UK	0808 800 2222			
CEOP Helpline	0800 1111			
Childline	http://www.childline.org.uk			
ThinkUKnow	http://www.thinkuknow.co.uk			
	Key Information			
Hackers 'stole' Gam terabytes of HBO co	e of Thrones scripts, obtaining 1.5 ompany data.			
An encryption is when data is scrambled before being transmitted, meaning only the recipient who has the 'key' can unscramble it.				
Active digital footprints are data trails you intentionally leave online such as posting updates, liking photos and uploading videos onto social media sites.				
Passive digital footprints are data trails you unintentionally leave online such as recording your web browsing and search history.				
Phishing emails target individual's online banking credentials, credit card details, or other login information such as usernames and passwords.				
Webcams can be used in many ways such as video conferencing, online gaming, online dating, job interviews, vlogging, or home security.				
More than 1.5 million people fall victim to some sort of cyber crimes every day.				



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	Definitions		
Block	Action taken to stop interactions from certain people via online communication.		
Cyberbullying	The use of electronic communication to bully a person, by the repetitive, intentional hurting of one person or group of people		
Digital Footprint	The information about a particular person that exists online as a result of their online activity		
Hacking	Gaining unauthorised access to information, with the intention of stealing data or causing damage		
Netiquette	The acceptable way of communication online		
Online Grooming	When someone builds an online relationship with a young person and trict them or pressures them into doing something sexual		
Phishing	The method of trying to gather personal information using dishonest emails and websites		
Social Network	An online platform that allows users to create a profile and interact with other users online		
Spam	An email that is sent to a number of people which mostly consists of advertising		

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Be S.M.A.R.T Online					
S	м	Α	R	Т	
Stay Safe Don't give our personal information to anyone you don't know.	Don't Meet Up Meeting someone you met online can be very dangerous.	Accepting Files Accepting emails, files, pictures of texts from people you don't know can cause problems	Reliable? Check credibility of information you find online. Don't trust everything you read online!	Tell Someone Tell a trusted adult if someone or something makes you feel worried or uncomfortable.	
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KPI 7.01 Numerical Skills				
1) Place Value	The value of a digit relating to its position in a number. In 1482 the digits represent 1 thousand, 4 hundreds, 8 tens and 2 ones.	2) Integer	Whole numbers including zero. -2, -1, 0, 1, 2, 3,	
3) Decimal	A number with a decimal point in it. It can be positive or negative. 0.3, 1.26, -3.4, etc	4) Positive Number	Any number above zero: 1, 2, 3, 4,	
5) Negative Number	Any number below zero. Always written with a negative sign in front of it: -1, -2, -3,	6) Zero Place Holder	A zero that is used as a place holder to denote the absence of a power of 10 E.g. 506 has no tens so there is a 0 in the tens column.	
7) Even Number	Any integer that can be divided by 2 without leaving a remainder. 2, 4, 6, 8, 10,	8) Odd Number	Any integer that cannot be divided by 2 without leaving a remainder. 1, 3, 5, 7, 9,	
9) Square Number	The result of multiplying a number by itself. It will always be positive: 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144	10) Square Root	The opposite of squaring a number to find the original factor e.g. $\sqrt{9} = 3 \text{ or } -3$	
	When one number, or quantity, is not equal to another. a < b a is less than b	12) Ascending	Smallest to largest	
11) Inequality	a > b a is greater than b a = b a is equal to b $a \neq b$ a is not equal to b	13) Descending	Largest to smallest	

KPI 7.02 Order of Operations						
1) Operation	A rule for combining numbers + - \times ÷	2) Evaluate	To work out the value of.			
3) Index notation	The index tells us how many times the base is being multiplied by itself. The plural of index is indices.	Power 23 Index Base				
4) Order of operations	B = Brackets DM = Division and Multiplication I = Indices and Roots AS = Addition and Subtraction					
	If we have a calculation with addition or subtraction only then we calculate from left to right. 18 - 10 + 2	ction If we have a calculation with multiplication or division only then go from left right. $8 \times 5 \div 4 \times 10$				
	8+2	8 × 5 ÷ 4 × 10				
	10	40 ÷ 4 × 10				
			$10 \times 10 = 100$			

KPI 7.03 Basic Rules of Algebra					
1) 2a	2 x a	2) ab	a x b		
3) a²	axa	4) 3a ²	3xaxa		
5) a subtracted from b	b – a	6) a less than b	b – a		
7) a subtract b	a – b	8) a reduced by b	a – b		
9) a divided by b	a b	10) b divided by a	<u>b</u> a		
11) 4 times smaller than a	<u>a</u> 4	12) 4 times larger than a	<i>4 x a → 4a</i>		
13) 5th power of a	a ⁵	14) Variable	A letter used to represent any number.		
15) Coefficient	The number to the left of the variable. This is the value that we multiply the variable by. $4x \rightarrow The \ coefficient \ of \ x \ is \ 4.$ $x \rightarrow The \ coefficient \ of \ x \ is \ 1.$	16) Term	A single number, variable or numbers and variable multiplied together.		
17) Expression	A mathematical statement which contains one or more terms combined with addition and/or subtraction signs <i>E.g.</i> 4x + 3y.	18) Collecting like terms	Combining the like terms in an expression. 7x + 3y - 2x is simplified to $5x + 3y$.		

	KPI 7.04 Factors, Multiples and Primes						
1) Factor	Any whole number that divides exactly into another number leaving no remainder is a factor. Factors of 20 are: 1, 2, 4, 5, 10, 20	Prime The result of multiplying a number with a vinumber (all times tables!) The multiples of 7: 7, 14, 21, 28, 35, 42, 49, 56, 63, 70					
3) Highest Common Factor (HCF)	The HCF of 2 or more numbers is the largest number that is a factor of each of those numbers <i>E.g. HCF of 18 and 45 = 9</i> <i>18: 1, 2, 3, 6, 9, 18</i> <i>45: 1, 3, 5, 9, 15, 45</i>	4) Lowest Common Multiple (LCM)	The LCM of 2 or more numbers is the smallest number that is a multiple of each of those numbers <i>E.g. LCM of 6 and 8 = 24</i> 6: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60 8: 8, 16, 24, 32, 40, 48, 56, 64, 72, 80				
5) Prime numbers	A prime number only has two distinct factors: 1 and itself. 2 is the only even prime number. 1 is not a prime number. Prime numbers between 1 and 100 are: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97						

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32

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KPI 7.05 Expand and Factorise						
rpand	Multiply out the bracket(s) in the expression. E.g. 3 ($5x + 7$) = $15x + 21$	2) Factorise	Identify the HCF and rewrite the expression with brackets. <i>E.g.</i> $6x^2 + 9x = 3x (2x + 3)$			

1) Ex

KPI 7.06 Addition and Subtraction						
1) Addition Plus, sum, more that	add, n.	To find the total of two or more numbers. The inverse operation is subtraction.	1.38 _4.90_+ _6.28 ⊀	2) Subtraction Subtract, minus, take away, less than.	To find the difference between two numbers. The inverse operation is addition.	4.90 1.38 - 3.52
3) Commutative		Addition is commutative – the order does not change the result. Subtract commutative.	of addition ion is not	4) Associative	When you add you can do so regardless of how the numbers are grouped. Subtraction is not associative	

KPI 7.07 Perimeter						
1) Perimeter	The total distance around the outside of a closed shape. Per = 20	8cm	2) Polygon	A 2D shape which has 3 or more straight sides.		
		5cm	3) Regular Polygon	A polygon where all sides are equal length, and all angles are of equal size.		
		Perimeter = 5 + 8 + 5 + 8 = 26 cm	4) Irregular Polygon	A polygon where all sides are not equal and/or all angles are not equal.		

1) Multiplication lots of, times, product, of	KPI 7.08 Multi Multiplication is the operation of scaling or Multiplication is the inverse operation of di Multiplication is commutative – the order of Multiplication is associative – when you mu	Iplication and Division ne number by another. vision. of multiplication does not cha <i>E.g. 2 x 3 = 3 x 2</i> ultiply you can do so regardle	on ange the result sss of how the numbers are grouped	Mathematics 4 of	
2) Multiplying integers	$E.g. 1 \times (2 \times 3) = (1 \times 2) \times 3$ $E.g. 1 \times (2 \times 3) = (1 \times 2) \times 3$ Remove the decimal points Multiply Insert the same number of decimal points in the answer as in the question 0.5×0.3 $5 \times 3 = 15$ $0.5 \times 0.3 = 0.15$				
4) Division	Division can be thought of as sharing. The number being divided is shared equally into the stated number of parts. Division is the inverse operation of multiplication.	$D \div \blacksquare = \blacksquare \overline{D} = \underline{D}$ \blacksquare $E.g. 8 \div 9 = 9 \overline{8} = \frac{8}{9}$	$4524 \div 3 \qquad \begin{array}{c} 1508 & 3 \\ 4^{1}52^{2}4 & \div \\ 3 & 4^{1}52^{2}4 \\ \end{array} \qquad \begin{array}{c} 3 \\ \div \\ 8 \\ \end{array} \qquad \begin{array}{c} 0.375 \\ 3 & 0.000 \\ \end{array}$		
5) Dividend	The number being divided. 15 \div 3 \rightarrow 15 is the dividend.	6) Divisor	The number by which another is divided. $15 \div 3 \rightarrow 3$ is the divisor.		
Knowledge Organiser				35	



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1) Fraction second (non-zero) integer. The numerator is smaller than the denominator e.g. 2) Proper fraction A whole number combined with a fraction. e.g. 2 1 4) Mixed number Write £15 as a fraction of £25. $\frac{15}{25} = \frac{3}{5}$ 6) Writing one number as a fraction of another Fractions which have the same value. The numerator and the 7) Equivalent fractions denominator can be multiplied or divided by the same num 8) Convert an integer to Whole numbers are an integer with a denominator of 1. a fraction 9) Converting an improper fraction to a Divide the numerator by the denominator. Write down the w numerator of the fraction. The denominator of the mixed nur mixed number 10) Converting a mixed Change the whole number into a fraction (same number to an improper denominator) and add on the fraction part. fraction Make the denominators the same (find the LCM). Use 11) Add/Subtract equivalent fractions to change each fraction to the comm fractions denominator. Add/subtract the numerators only. Find the lowest common denominator. Write equivalent 12) Order fractions fractions with the LCD. Order from the smallest to largest numerator. Rewrite original fractions in the new order. Use short division. E.g. to convert 3 to a decimal: 13) Convert fractions to 0.375 decimals 8 3.000

Part of a whole. The result of dividing one integer by a

Year 7 | Knowledge Organiser

0 of 1(Mathematics

36

KPI 7.10-7.13 Fra	actions					
e integer by a	<u>3</u> 4	 Numerator Denominator How many equal parts do you have? How many equal parts is the whole divided into? 				
ninator e.g. <u>5</u> 6	3) Improper fraction	The numerator is greater than or equal to the denominator e.g. $\frac{11}{8}$				
pon. e.g. 2 $\frac{1}{3}$	- 5) Simplify a fraction	5) Simplify a fraction Divide both the numerator and the denominator of the fraction by their HCF.				
numerator and the by the same number.	E.g. Fractions equivalent to $\begin{array}{c c} 3 & 2 & 6 \\ \hline 5 & 2 & 10 \\ \hline \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
ominator of 1.	$3 = \frac{3}{1} = \frac{15}{5}$					
Write down the whole r r of the mixed number i	number of the answer and the r is the same as the denominator	remainder as the of the improper fraction. $\frac{15}{7} = 2\frac{1}{7}$				
n (same art.	$2\frac{3}{4} = \frac{8}{4} + \frac{8}{4}$	$-\frac{3}{4} = \frac{11}{4}$				
he LCM). Use tion to the common tors only.	$\frac{2}{7} + \frac{2}{5} =$	$= \frac{10}{35} + \frac{14}{35} = \frac{24}{35}$				
Write equivalent mallest to largest the new order.	$ \begin{array}{c} \frac{2}{3} \\ \underline{20} \\ 30 \\ \underline{2} \\ 3 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
decimal:	14) Fractions of an amount We divide the amount by the denominator and then multiply the result by the numerator.					

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1) Substitute

Replace a variable with a given value e.g. if b = 10, $2b = 2 \times 10 = 20$ b - 2 = 10 - 2 = 8

if b = 10,
$$\frac{b}{2} = \frac{10}{2} = 5$$

KPI 7.14 Substitution

KPI 7.15 Angles An angle is a measure of turn from one line segment to another. The most common unit of measurement for angles. 1) Angle 2) Degree One whole turn is equal to 360 degrees. 3) Acute Less than 90° 4) Right angle Exactly 90° angle 5) Obtuse 6) Reflex Greater than 90° but less than 180° Greater than 180° angle angle Angles on a straight-line sum to 180° Angles around a point sum to 360° 8) Angles 7) Angles on 148° around a a straight line point 540 140° Angles in a triangle sum to 180° Angles in a guadrilateral sum to 360° 5,60 10) Angles 98° 9) Angles in a in a triangle quadrilateral 124°

KPI 7.16 Polygons				
1) 3 sides	Triangle	2) 4 sides	Quadrilateral	
3) 5 sides	Pentagon	4) 6 sides	Hexagon	
5) 7 sides	Heptagon	6) 8 sides	Octagon	
7) 9 sides	Nonagon	8) 10 sides	Decagon	
9) 11 sides	Hendecagon	10) 12 sides	Dodecagon	
11) Equilateral triangle	3 equal angles 3 equal sides	12) Isosceles triangle	 2 equal angles 2 equal sides	
13) Scalene triangle	 All angles are different All sides are different 	14) Right angled triangle	 One angle of 90° Can be isosceles or scalene 	
15) Square	 4 right angles 4 equal sides 2 pairs of parallel sides 	16) Rectangle	 4 right angles 2 pairs of parallel sides 2 pairs of equal sides 	
17) Parallelogram	 2 pairs of equal sized angles 2 pairs of parallel sides 2 pairs of equal sides 	18) Rhombus	 4 equal sides 2 pairs of equal sized angles 2 pairs of parallel sides 	
19) Trapezium	• 1 pair of parallel sides	20) Right angled trapezium	 2 right angles 1 pair of parallel sides 	
21) Isosceles trapezium	 1 pair of parallel sides 2 pairs of equal sides 2 pairs of equal sized angles 	22) Kite	 1 pair of equal sized angles 2 pairs of equal side 	

Year 7 | Knowledge Organiser



	KPI 7.18 Co-ordinates					KPI 7.20 Two-wa
1) Origin	The coordinate (0,0), where the x - axis and y - axis intersect. Written in pairs and inside a bracket. The first number is the x - coordinate (horizontal position).	2) Axis	x - axis is horizontal (y = 0) y - axis is vertical (x = 0) The plural of axis is axes. Point A is in the SECOND quadrant Point B is in the FIRST quadrant	_	1) Two-way table	A visual representation of the possible relationships between two sets of categorical data. You can add and subtract values horizontally and vertically to find totals or missing values.
3) Coordinates	The second number is the y - coordinate (vertical position).	(3	Point C is in the THIRD quadrant Point D is in the FOURTH quadrant The coordinate (0,0) is also known as the ORIGIN		2) Venn diagrams	These were created by an English Mathematician, John Venn (1834 – 1923). They are used to sort groups of data and consist of two or more circles, often overlapping, contained inside a rectangle.
	KPI 7.1	9 Mean		l		In a Venn diagram with 2 circles, an overlap represents a section where elements (e.g. numbers lie in both sets (e.g. A and B).
1) Average	A number expressing the central or typical value in a set of data.	2) Mean	The sum of the numbers divided by how many numbers are being averaged. E.g. Calculate the mean of 14, 6, 18, 2, 3. 1) Add the values: $14 + 6 + 18 + 2 + 3 = 43$ 2) Divide by 5		3) One intersection	The overlap between the sets, is called the intersection. E.g. A = First ten square numbers B = First ten multiples of 8
			3) Mean is $\frac{43}{5} = 8.6$			
3) Reversing the mean	 If we have the mean but one of the data points is missing, we can find the missing value by: 1) Multiplying the 'mean' by the number of data points to get the total of the values. 2) Subtracting the sum of the known values from the total of all values. 	E.g. The mean of three numbers is 5. Two of the numbers are 3 and 10. Find the third value. Total of the values: $5 \times 3 = 15$ 15 - (3 + 10) = 2 The third value is 2			4) Multiple intersections	If a Venn diagram is representing three sets, it will have three circles. Each circle will often overlap with another data set twice, with all three circles overlapping at the centre.

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y tables and Venn diagrams

	Child	Adult			
Male	7	9	16		
Female	8	6	14		
Total	15	15	30		

The values in a row have a total at the right-hand side of the row.

The values in a column have a total at the bottom of the column.





16 and 64 are in the intersection as they are in both sets.







The Elements of Music

Pitch How high or low a note is. Pitch increases and decreases by steps of a scale. Scales can be major or minor.

Tempo Tempo describes the speed of the music. We use Italian terms to describe speed.

Rhythm

Notes have different lengths – some long, some short. When we combine long and short notes it creates a rhythm.

Melody Melody is the tune.

Structure Music is often divided into sections. These sections are put together to create the structure.

Texture

Music is made up of layers. There are different names depending on how many layers there are and how they work together.

Timbre

We use the word timbre to describe the different sounds made by the instruments.

Tonality

Whether the piece is major or minor. Major sounds 'happy', minor sounds 'sad'.

Dynamics

Dynamics is volume in music. Varying dynamics makes music more interesting. We use Italian terms to describe dynamics.

Тетро								
Italian	Largo	Adagio	Andante	Allegro	Presto	Rallentando	Allargando	
English	Very slow	Slow	Walking pace	Fast	Very fast	Gradually slow down	Gradually speed up	



			Tonality			
	pp p mp mf f					ſſ
Italian	Pianissimo	Piano	Mezzo piano	Mezzo forte	Forte	Fortissimo
English	Very quiet	Quiet	Medium quiet	Medium loud	Loud	Very loud
			Crescendo		_	Diminuendo
	<	<u> </u>	Gradually getting louder		>	Gradually getting quieter

Melody – Keyboard Skills



Lower pitch

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Lemonade

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Pineapple

Coffee

Polyrhythm: Many different

rhythms at the same time.

Higher pitch







Rhythm Grid

A way of notating rhythm using boxes. Used instead of standard notation.

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5 lines where notes are place to determine pitch.





4	Violin Viola Celo Double Bass	Woodwind Flute Clarinet Saxophone Bassoon	Brass Trumpet Trombone French Horn Tuba	Percussion Data Kit Tampourine Timponi
-	Treble Clef	Bass Clef	Sharp	Flat
d	Symbol placed on the stave. Used for high pitch – right hand piano.	Symbol placed on the stave. Used for low pitch – left hand piano.	Black key to the right on the piano.	Black key to the left on the piano.





D is in the middle of the two black kevs



Health, Fitness, Exercise and Performance

Components of Fitness							
Muscular Strength		The amount of force a muscle can exert against a resistance.	Power	X	The ability to perform strength performances quickly. Power = Muscular Strength x Speed		
Muscular Endurance	-	The ability to exercise the voluntary muscles many times without getting tired.	Co-ordination	K	The ability to use two or more body parts together.		
Cardiovascular Endurance/ Fitness	\$	The ability of the heart, lungs and blood to transport oxygen to working muscles for long periods of time.	Reaction Time	ting to	The time taken to respond to a stimulus.		
Flexibility	-	The range of movement (ROM) possible at a joint.	Agility	R.s.	The ability to change the position of the body quickly while maintaining control of the movement.		
Body	on The percentage of bo fat, muscle and bone.	The percentage of body weight which is	Balance	X	The ability to maintain the body's centre of mass above the base of support.		
Composition		fat, muscle and bone.	Speed	- Alt	The amount of time it takes to perform a particular action or cover a particular distance.		

	Fitness Tests									
Grip Dynamometer	1 Minute Sit Ups	12 Minute Cooper Run	Sit and Reach	Body Mass Index (BMI)	Standing Broad Jump	Hand Wall Throw	Ruler Drop	Illinois Agility Test	Standing Stork	30m Sprint
	->	Re		X	etta	A	/		4	

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Cool Down

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Phase 1: Light Exercise

E.g. Slow jogging at a much lower intensity than what you have been working at.

Phase 2: Stretching Stretching the muscles you have used in the main activity.

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Silent Movies						
Key Terminology - BE EPIC						
Believability	В	The quality of being believed, having credibility.				
Exaggeration	E	To make something seem larger more important, better, or worse than it actually is.				
Expressions	E	The action of making known one's thoughts or feelings.				
Point of Contact	Р	The point at which the actor comes into contact with an obje or another actor.				
Imagination	I	The ability in the mind to create new ideas or concepts to be creative or resourceful.				
Consistency	с	Acting or done in the same way over time, especially so as to be fair or accurate.				

Why is it important to warm up before physical activity?

A warm-up activity serves two major purposes—to enhance performance and prevent injury. Consequently, a warm-up is both physical and mental.

Celebrating Differences				
	Key Terminology			
Conclude	Arrive at a judgement or opinion by reasoning			
Consequence	A result or effect, typically one that is unwelcome or unpleasant			
Conscience	A person's moral sense of right and wrong viewed as acting as a guide to one's behaviour			
Spectrum	Used to classify something in terms of its position on a scale between two extreme points			
Speculate	Form a theory or conjecture about a subject without firm evidence			
Interrelationship	The way in which each of two or more things is related to the other/s			

What is a still image?

A still image is a frozen snapshot which communicates meaning to an audience. The four elements of a still image are:

- Facial expressions
- Body language
- Control
- Levels

Fantasy					
	Key Terminology				
Fantasy	The faculty or activity of imagining impossible or improbable things.				
Genre	A style or category of art, music or literature.				
Inanimate	Showing no signs of life; lifeless. Not alive.				
Infer	To deduce or conclude (something) from evidence and reasoning.				
Extract	A short passage taken from a text, film or piece of music.				
Evaluation	The making of a judgement about the amount, the number or value of something.				

Body props

Body props is a drama technique where the actor creates the shape and form of a prop or object. This replaces the use of set/props and/or physical objects on stage.

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47

Beliefs, Philosophy and Ethics

	Christianity							
1	Christianity	The religion based on the person and teachings of Jesus Christ.	11	Resurrection	The Christian service commemorating the Last Supper, in which bread and wine are consecrated and consumed.			
2	Jesus	First-century Jewish teacher who Christians believe to be the Son of God.	12	Ascension	The ascent of Jesus Christ into heaven on the 40th day after his Resurrection.			
3	The Natavity	The birth of Jesus Christ.	13	Nicene Creed	A statement of Christian beliefs.			
4	Immaculate Conception	The teaching that God preserved the Virgin Mary from the taint of original sin.	14	Trinity	The three persons of the Christian godhead; Father, Son and Holy Spirit.			
5	Messiah	A messiah is a saviour or liberator of a group of people. Christians believe Jesus to be the Messiah.	15	Original Sin	The evil within all human beings, inherited from Adam and Eve.			
6	Ministry	The work of a religious person.	16	Saint Augustine	A Bishop who established the concept of Original Sin.			
7	Sermon on the Mount	A collection of sayings and teachings attributed to Jesus Christ, which emphasises his moral teaching.	17	Reformation	A 16th-century movement for the reform of abuses in the Roman Church ending in the establishment of the Reformed and Protestant Churches.			
8	Beatitudes	The blessings listed by Jesus in the Sermon on the Mount.	18	Roman Catholic	A branch of Christianity whose main source of authority is the Pope and the Bible.			
9	Last Supper	The final meal that Jesus shared with his disciples before his crucifixion.	19	Protestant	A branch of Christianity whose main source of authority is the Bible.			
10	Eucharist	The Christian service commemorating the Last Supper, in which bread and wine are consecrated and consumed.	20	Evangelism	Churches that stress the preaching of the gospel of Jesus Christ, personal conversion experiences and Scripture as the sole basis for faith.			

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Beliefs, Philosophy and Ethics

	Judaism							
1	Judaism	An ethnic religion made up of the collective religious, cultural, and legal tradition and civilization of the Jewish people.	11	Shabbat	The Jewish day of rest.			
2	Monotheism	The belief in one God.	12	Pesach Passover	Jewish celebration which remembers the Hebrews' freedom from slavery in Egypt.			
3	Torah	The law of God as revealed to Moses and recorded in the first five books of the Hebrew scriptures.	13	Seder	A Jewish ritual service and ceremonial dinner for the first night or first two nights of Passover.			
4	Tanakh	The Jewish Scriptures comprising the books of law, the prophets, and collected writings.	14	Yom Kippur (Day of Atonement)	The holiest day of the year where Jews spend most of the day in the Synagogue.			
5	Talmud	The body of Jewish civil and ceremonial law and legend.	15	Anti- Semitism	Hostility to or prejudice against Jewish people.			
6	Orthodox Judaism	A major branch within Judaism which teaches strict following of Jewish law and its traditional observances.	16	Jewish Deicide	The anti-Semitic belief that the Jewish people were collectively responsible for the death of Jesus.			
7	Reform Judaism	A branch of Judaism which has reformed or abandoned aspects of Orthodox Jewish worship and ritual in an attempt to adapt to modern life.	17	Persecution	Hostility and ill-treatment, especially because of race or political or religious beliefs; oppression.			
8	Synagogue	A Jewish place of worship.	18	Genocide	The deliberate killing of a large number of people from a particular nation or ethnic group with the aim of destroying that nation or group.			
9	The Western Wall	The holiest site where Jews are allowed to pray, behind it lies the foundation stone.	19	Holocaust (Shoah)	The genocide of European Jews during WWII, committed by the Nazis, killing six million Jewish people.			
10	The Foundation Stone	In traditional Jewish sources, it is considered the place from which the creation of the world began.	20	Holocaust Memorial Day	Holocaust Memorial Day is a national commemoration day in the United Kingdom dedicated to the remembrance of the Jews and others who suffered in the Holocaust, under Nazi persecution.			

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RE 1 of 2

48

RE 2 of 2

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of 13 Science

Particles

Explaining the properties of solids			Explaining the pr	operties of liquids	Explaining the properties of gases		
Property	Reason		Property	Reason	Property	Reason	
Fixed shape & cannot flow	Particles cannot move from place to place		They flow and take the shape of their container	The particles can move around each other	They flow and completely fill their container	The particles can mov quickly in all direction	
Cannot be compressed (squashed)	Particles are close together and have no space to move into		They cannot be compressed (squashed)	The particles are close together and have no space to move into	They can be compressed (squashed)	The particles are far apart and have space to move into	

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State	Solid	Liquid	Gas
Diagram			
Arrangement of particles	Regular arrangement	Randomly arranged	Randomly arranged
Movement of particles	Vibrate about a fixed position	Move around each other	Move quickly in all directions
Closeness of particles	Very close	Close	Far apart

Particles

Gas Pressure

When gas particles hit the walls of their container, they cause pressure. The faster the particles move, the higher the gas pressure.





low concentration.

place to place.



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Science \sim of $\overrightarrow{\omega}$

Diffusion

Diffusion is the movement of a substance from an area of high concentration to an area of

Diffusion happens in **liquids** and **gases** because their particles move randomly from



Conservation of mass

The particles stay the same when a substance changes state - only their closeness, arrangement or motion change. This means that the mass of the substance stays the same.

For example, 10g of water boils to form 10g of steam, or freezes to form 10g of ice. This is called conservation of mass.

Gaining energy

	-
Bo	iling
(or eva	porating)
8	
Cond	ensing

	Melting	Evaporating or boiling
Description	Solid to liquid	Liquid to gas
Closeness of particles	Stay close together	Become much further apart
Arrangement of particles	Regular to random	Stay random
Motion of particles	Start to move around each other	Start to move quickly in all directions

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Particles

A pure substance contains only one type of particle.

For example:

- Pure iron contains only iron particles (called iron atoms):
- Pure water contains only water particles (called water molecules);
- Pure oxygen only contains oxygen particles (called oxygen molecules).

A mixture contains more than one type of particle that are NOT chemically joined together.

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For example:

- Steel contains iron particles and small amounts of carbon particles (called carbon atoms):
- Tap water contains water particles and small amounts of other particles (called ions):
- Air contains 21% oxygen, 78% nitrogen and 1% of other gases (e.g. argon and carbon dioxide).

Dissolving is one way to make a mixture.

For example, when salt is stirred into water, the salt dissolves in the water to make salt solution. In a solution:

- the substance that dissolves is called the solute:
- the substance that the solute dissolves in is called the solvent.

For example, in salt solution, salt is the solute and water is the solvent. When you can't dissolve any more solute in a solvent, we say the solution is saturated.

Particles



Evaporation is used to separate a soluble solid from a liquid.

For example, copper sulphate is soluble in water -- its crystals dissolve in water to form copper sulphate solution.

During evaporation, the water evaporates away leaving solid copper sulphate crystals behind







Chromatography is a method for separating dissolved substances from one another.

It works because some of the coloured substances dissolve better than others, so they travel further up the paper.

A pencil line is drawn, and spots of ink or dye are placed on it. There is a container of solvent (e.g. water or ethanol).

As the solvent continues to travel up the paper, the different coloured substances spread apart.



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Distillation is a method for separating the solvent from a solution.

For example, water can be separated from salt solution because water has a much lower boiling point than salt. When the solution is heated, the water evaporates. It is then cooled and **condensed** into a separate container. The salt does not evaporate and so it stays behind.





chromatography experiment.

Definitions – Particles 7CP

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1	Particle	All matter is made up of tiny particles.There are three states of matter: solid, liquid, and gas.
2	Solid	Particles are arranged in rows and are touching.The particles have strong bonds between them.They vibrate around a fixed position.
3	Liquid	Particles are randomly arranged and most aretouching. The particles have some bondsbetween them and can move.
4	Gas	 Particles are randomly arranged and don't touch. The particles have no bonds between them and move quickly in all directions.
5	Properties of solids	Fixed shape & cannot flow.Cannot be compressed (squashed).
6	Properties of liquids	They flow and take the shape of their container.They cannot be compressed (squashed).
7	Properties of gases	They flow and completely fill their container.They can be compressed (squashed).
8	Melting	Change of state from solid to liquid.
9	During melting	Gain energy.Stay close together.Arrangement becomes random.Start to move around each other.
10	Evaporation	Change of state from liquid to gas.
11	During evaporation	Gain energy.Become much further apart.Stay randomly arranged.Start to move quickly in all directions.
12	Condensation	Change of state from gas to liquid.

13	Freezing	Change of state from liquid to solid.
14	Filtration	 A method for separating an insoluble solid from a liquid e.g. separating sand and water.
15	Evaporation	Used to separate a soluble solid from a liquid.
16	Distillation	 A method for separating the solvent from a solution. For example, water can be separated from salt solution.
17	Chromatography	 A method for separating dissolved substances from one another e.g. for separating a mixture of inks.
18	Pure substance	 Contain only one type of particle. For example, pure iron contains only iron particles (called iron atoms).
19	Mixture	 Contains more than one type of particle that are not chemically joined together.
20	Dissolving	 When a solid is mixed with a liquid to form a solution, e.g. when salt dissolves in the water to make salt solution.
21	Solute	The solid that dissolves, e.g. the salt.
22	Solvent	• The substance that the solute dissolves in e.g. the water.
23	Soluble	A substance that will dissolve in a solvent.
24	Insoluble	A substance that will not dissolve in a solvent.

Cells, tissues and organs

Unicellular organisms are made of one cell (e.g. bacteria) Multicellular organisms are made of many cells (e.g. plants and humans)



Organelle	Function
Nucleus	Contains genetic material which controls the cell's activities
Cell Membrane	Controls the movement of substances in and out of the cell
Cytoplasm	Where chemical reactions happen
Mitochondria	Where energy is released in respiration
Ribosome	Where protein synthesis happens
Cell Wall	Provides strength and support
Chloroplast	Absorb light energy for photosynthesis (contains chlorophyll)
Vacuole	Filled with cell sap

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Science 6 of 13

Parts of the microscope



- Put the slide on the stage
- Always start on the lowest magnification as it gives you the widest field of vision
- Use the focus to see your object
- Then increase the magnification

These are some examples of specialised cells; cells that are adapted to do a specific job.



Sperm cell

Streamlined -Swim fast Lots of mitochondria that release energy for swimming



Palisade cell

Lots of chloroplasts that absorb sunlight for photosynthesis



Root hair cell

Large vacuole for storing cell sap Large surface area to absorb water and minerals more efficiently

Cells, tissues and organs

Definitions – Cells, tissues and organs 7BC

Cell		Tissue		Organ		Organ System		
Cell	The smalles	The smallest structural unit of all organisms						
Tissue	Made from a group of cells with a similar structure and function, which all work together to do a particular job							
Organ	Made from a group of different tissues, which all work together to do a particular job							
Organ System	Made from a group of different organs, which all work together to do a particular job							

Digestive system

Role: to break down large food molecules into smaller molecules that can be absorbed

Oral Covity -Tongue

Appendix-

Anut

Adaptations

- The intestine is a highly folded structure, which increases surface area to speed up diffusion
- The intestine is covered in many villi which are further covered by microvilli = large surface area → faster rate of diffusion
- Thin membranes → shorter distance to diffuse → faster rate of diffusion
- Covered in blood vessels→ keeps blood moving to maintain concentration differences→ faster rate of diffusion



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•	1	Cell	The building block of all living organisms.	16	Multicellular organisms	Organisms made up of many cells (e.g. human).
•	2	Organelle	 A part within a living cell that serves a function e.g. nucleus. 	17 Tissue		 Made from a group of cells with a similar structure and function, which all work together
	3	Nucleus	 Contains DNA which controls the cell's activities. 			to do a particular job.
	4	Cell Membrane	 Controls the movement of substances in and out of the cell. 	18	Organ	 Made from a group of different tissues, which all work together to do a particular job.
	5	Cytoplasm	Where most of the chemical reactions happen.	19	Organ System	 Made from a group of different organs, which all work together to do a particular job.
_	6	Mitochondria	Where most energy is released in respiration.	20	Organisational hierarchy	 [Smallest] cells → tissues → organs → organ systems [largest]
	7	Ribosome	Where protein synthesis happens.	-		Breaks down large insoluble molecules of food
	8	Cell Wall	Strengthens the cell and supports the plant.	21	Digestive system	into smaller soluble molecules so they can be absorbed into the blood.
	9	Chloroplast	Absorbs light energy for photosynthesis (contains chlorophyll).	22	Breathing system	Carries out gas exchange in animals.
	10	Vacuole	 Filled with cell sap to help keep the cell turgid to provide support. 	23	Magnification	Making something appear larger than it really is.
	11	Root hair cell	 A specialised plant cell that has a large surface area to absorb water. 	24	Stage	Area on a microscope where the specimen is placed
	12	Palisade cell	 A specialised plant cell found at the top of a leaf and has many chloroplasts to 			is placed.
_			absorb sunlight.	25	Objective lens	 Magnifies the image of the specimen. We always start with the lowest power objective lens when looking at a specimen.
	13	Sperm cell	 A specialised animal cell that has many mitochondria for energy and a tail for swimming. 			
	14	Red blood cell	 A specialised animal cell that has no nucleus to maximise the space for carrying oxygen. 	26	Eyepiece lens	• The lens we look down, it magnifies the image of the specimen.
	15	Unicellular organisms	Organisms made of one cell (e.g. bacteria).	27	Coarse/fine focus wheels	 Used to focus the specimen so it can be seen clearly.

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Energy



The energy laws:

Energy

Different energy stores:	We can measure the
• Chemical;	Units of energy:
Kinetic; Crevitational notantial:	Joules (J):
Gravitational potential; Elastic potential:	Kiloioules (kJ):
• Magnetic;	Kilowatt-hours (kWh).
Electrostatic;	
 Internal (or thermal); Nuclear 	
· Nuclear.	
Path	ways
There are 4 main pathways by which	energy can be transferred:
• by mechanical work (a force causing a	an object to move);
• by electrical work (when charges mov	ve due to a potential difference);
• by heating (due to a difference in terr	nperature);
• by radiation (due to electromagnetic	waves, e.g. light or to mechanical
waves, e.g. sound).	
Energy costs money	÷60
To work out how much it costs,	mins - hours
you need to know:	
• The amount of units of energy	x60
• The cost per unit (1 unit is 1 kW/b) -	
you will be told this.	
Total cost (p) = number of	÷1000
kilowatt-hours (kWh) × cost per	watts - kilowatts
kilowatt-hour (p)	mans - kilomans

Renewable and non-renewable resources:

1) Non-renewable energy resources cannot be replaced once they are all used up;

• Fossil fuels (coal, oil, gas)

 Release carbon dioxide (a greenhouse gas and increases global warming) - release sulphur dioxide and nitrogen oxides, which cause acid rain.

• Nuclear

- + Nuclear fuels do not produce carbon dioxide or sulphur dioxide;
- Non-renewable energy resources. They will run out one day;
- Risk of radioactive material being released into the environment.

2) Renewable energy resources can be replaced, and will not run out;

• Wind

- + No release of carbon dioxide or sulphur dioxide
- If there is no wind, there is no electricity.

• Water (wave, tidal or hydroelectric)

- + No release of carbon dioxide or sulphur dioxide
- If there is no wind, there is no electricity
- Difficult for wave machines to produce large amounts of electricity
- Tidal barrages destroy the habitats
- Hydroelectric floods farmland and can push people from their homes.

Geothermal

- + No release of carbon dioxide or sulphur dioxide
- Most parts of the world do not have suitable areas for geothermal.
- Solar

x1000

- + No release of carbon dioxide or sulphur dioxide
- If there is no sunlight, there is no electricity.

You can work out how many units something uses if you know its power (in kW) and how long you have used it for (in hours):

Number of units of energy used (kWh) = power (kW) x time (s)

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Definitions – Energy 7PE

Chemical – energy stored in the bonds

1	Energy Stores	 of chemicals. Kinetic - movement energy. Gravitational potential - energy of an object due to its position in a gravitational field. Elastic potential - when an elastic object is deformed. Magnetic. Electrostatic. Internal (or thermal). 		
2	Efficiency	$Efficiency = \underbrace{useful energy transferred}_{total energy supplied} \times 100$		
3	Joule (J)	• Unit of energy.		
4	Watts (W)	• Unit of power.		
5	Power	How fast energy is transferred.The unit is Watts (W).		
6	Power equation	Power = Energy/time.Energy in Joules and time in seconds.		
7	Conduction	 Heat transfer from one particle to another when they are touching. This happens best in solids. Metals also have delocalised electrons which makes conduction happen faster. Can not travel through a vacuum as there are no particles in a vacuum. 		
8	Convection	 Heat transfer in fluids (liquids and gases). Can not travel through a vacuum as there are no particles in a vacuum. 		
9	Radiation	Heat transfer via infra-red (thermal) radiation.Infra-red radiation can travel through a vacuum.		

10	Emit	Gives out thermal radiation.Matt black surfaces are the best emitters.	•
11	Conservation of Energy	• Energy can not be created or destroyed, only transferred from one store to another.	
12	Energy Transfers	Mechanical work.Electrical work.Heating.Radiation.	
13	Mechanical Work	 When a force causes an object to move (measured in Joules). 	
14	Non- renewable Resources	Fossil fuels (coal, oil and gas).Nuclear fuels.	
15	Fossil Fuel	 A natural fuel such as coal, oil or gas, formed in the past from the remains of living organisms. 	
16	Renewable Energy Resources	 Resources that are replaced as quickly as they are used. 	
17	Examples of Renewable Energy Resources	 Wind – using wind turbines. Water - hydroelectric, tidal and wave. Geothermal – using the heat from the Earth's core. Solar – using the sun's energy. 	
18	Temperature	• A measurement of the average amount of energy of the particles in a substance.	
19	Energy	Total amount of energy of all the particles.	
20	Dissipation	 Spread out to the surroundings as wasted energy – usually heat. 	
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Chemical Reactions

The pH scale



Acid used Second part of salt's name	
hydrochloric acid	chloride
sulfuric acid	sulfate
nitric acid	nitrate

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Science 12 of 13

Word equations

A word equation shows the names of each substance involved in a reaction:

iron + sulphur \rightarrow iron sulfide

The substances that:

Hazard signs to be aware of

when dealing with acid and

alkalis:

New symbol

re symbol

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react together are called the reactants (e.g. iron and sulphur);
are formed in the reaction are called the products (e.g. iron sulphide).

Conservation of mass

Total mass of the reactants = Total mass of the products We say that mass is conserved in a chemical reaction.

Naming Salts

The name of a salt has two parts:

- the first part comes from the metal in the alkali used;
- the second part comes from the **acid** that was used.

Reacting metals with acids

metal + acid \longrightarrow metal salt + hydrogen eq. zinc + hydrochloric acid \longrightarrow zinc chloride + hydrogen

To test if **hydrogen is produced**, hold a <u>lit splint</u> to the gas and listen for it to <u>burn with a squeaky pop</u>.



Neutralisation

When an acid reacts with an alkali (or **base**), a **neutral** salt solution is formed.

This is called **neutralisation**.

acid + alkali \longrightarrow salt + water

e.g. sodium hydroxide + hydrochloric acid

 \longrightarrow sodium chloride + water

Potassium nitrate

From an alkali containing potassium, e.g. potassium hydroxide From the acid "NITRIC ACID"

Definitions – Chemical Reactions 7CC

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1	Signs of a reaction	Bubbles of gas released. Change in temperature. Colour change. Change in mass.	
2	Chemical reactions	When substances are mixed together and you can no get the original materials back. E.g. Combustion. A few chemical reactions are reversible. Reactant + reactant Product.	
3	Physical changes	When substances just change state and we can get the original reactants back E.g. Melting ice.	
4	Acid	A solution with a pH of less than 7.	
5	Alkali	A solution with a pH of more than 7.	
6	Neutral	A solution with a pH of 7.	
7	Indicator	A chemical that turns a different colour depending on whether it is added to acid or alkali. E.g. Litmus indicator – red in acid, blue in alkali. E.g. Universal indicator - used to measure how strongly acidic or alkaline a solution is.	
8	Conservation of Mass	Total mass of reactants = total mass of the products.	
9	Neutralisation	A reaction between an acid and an alkali making a neutral solution of salt and water.	
10	Neutralisation Reaction	Acid + alkali salt + water	

11	Reactant	The substances that react together in a chemical reaction.	•
12	Product	The substances that are produced in a chemical reaction.	
13	pH Scale	Measures the strength of an acid or alkali. The solution is assigned a number between 0 and 14 (see diagram).	
14	Hydrochloric Acid	Makes salts that end in chloride.	
15	Sulfuric Acid	Makes salts that end in sulfate.	
16	Nitric Acid	Makes salts that end in nitrate.	
17	Salt	A substance that is made in a neutralisation reaction (see examples below).	
18	Calcium hydroxide + hydrochloric acid	Calcium chloride.	
19	Magnesium oxide + nitric acid	Magnesium nitrate.	
20	Copper oxide + nitric acid	Copper nitrate.	
21	Potassium hydroxide + sulphuric acid	Potassium sulfate.	

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Important Grammar

Nouns in Spanish can be masculine or feminine. If there is more than one thing they are masculine plural or feminine plural The word you use for 'a', 'some', 'a lot' or 'the' will

depend on whether the noun is masculine (m), feminine (f), masculine plural (mp) or feminine plural (fp).

	a	some	a lot	the
m	un		mucho	el
f	una		mucha	la
mp		unos	muchos	los
fp		unas	muchas	las
<u>un</u> bolí unos bolí <u>s</u> una regla unas regla <u>s</u>		<u>a</u> pen (m) <u>some</u> pen <u>s</u> (mp) a ruler (f) <u>some</u> ruler <u>s</u> (fp)		
<u>el</u> bolí <u>los</u> bolí <u>s</u> l <u>a</u> regla l <u>as</u> regla <u>s</u>		<u>the</u> pen <u>the</u> pen <u>s</u> <u>the</u> ruler <u>the</u> ruler <u>s</u>		

Making adjectives agree If you use an adjective to describe something the ending may change depending on whether what you are describing is masculine, feminine, masculine plural or feminine plural. Ending fp m mp grand<mark>e</mark> grand<mark>es</mark> grand<mark>es</mark> grande listo list<mark>a</mark> list<mark>os</mark> <u>listas</u> azu<mark>les</mark> azu<mark>les</mark> Consonant azul azul feli<mark>ces</mark> feli<mark>ces</mark> fel<mark>iz</mark> <u>feli</u>z optim<mark>ista</mark> optim<mark>istas</mark> optim<mark>istas</mark> optim<mark>ista</mark>

to be etc.)

talk about:

- to eat, vivir - to live)

is an -ar verb)

most common irregular verbs: I (yo)

You (tú) e/She/It (él/ella) We (nosotros) iou pl (vosotros) hey (ellos/ellas)	
e/She/It (él/ella) We (nosotros) ou pl (vosotros) hey (ellos/ellas)	You (tú)
We (nosotros) ou pl (vosotros) hey (ellos/ellas)	e/She/It (él/ella)
ou pl (vosotros) hey (ellos/ellas)	We (nosotros)
hey (ellos/ellas)	ou pl (vosotros)
	hey (ellos/ellas)

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Science

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Verbs

Infinitives – these mean 'to do something' (e.g. to play.

In Spanish there are 3 types of infinitive.

They are '-**ar**', '-**er**' and '-**ir**' verbs. (jug<mark>ar – to</mark> play, com**er**

The present tense - regular verbs

Take the ending off the infinitive and replace it with the correct ending for the person you want to

	-ar	-er	-ir	
I (yo)	-0	-0	-0	
You (tú)	-as	-es	-es	
He/She/It (él/ella)	-a	-е	-е	
We (nosotros)	-amos	-emos	-imos	
You pl (vosotros) -áis -éis -ís				
They (ellos/ellas)	-an	-en	-en	
Ejemplo: hab lar = to speak so habl o = I speak (as it				

Stem-changing verbs – some Spanish verbs change a bit at the start of the verb as well as the end except for the we and you pl forms.

Juego (I play) jugamos (we play)

J<mark>ue</mark>gas (you play) jugáis (you play) pl

J<u>ue</u>ga (he/she plays) j<mark>ue</mark>gan (they play)

Gusta and gustan

Opinion phrases with '**me**' in them add an extra 'n' if talking about something plural.

Eiemplos

Me gusta el inglés

Me gusta<mark>n las</mark> matemática<mark>s</mark>

Me gusta<mark>n</mark> el inglés <mark>y</mark> la historia

!! If you want to talk about someone else he or she) just change the 'me' to 'le'.

Possessive adjectives – my, your, his, her.				
	my your his/her			
singular	mi	tu	su	
plural	mis	tus	sus	

Irregular verbs – some verbs don't follow the pattern above and you just have to learn these ones. These are some of the

tener (to have)	ser (to be)	ir (to go)	hacer (to do/ make
tengo	soy	voy	hago
tienes	eres	vas	haces
tiene	es	va	hace
temenos	somos	vamos	hacemos
tenéis	sois	vais	hacéis
tienen	son	van	hacen

The near future tense – going to do something. Use the right form of 'ir' (to go), put 'a' in the middle and add an infinitive.

I'm going	Voy a		
You're going	Vas a		
He/she/it is going	Va a		
We're going	Vamos a		
You (pl) are going Vais a			
They're going Van a			
+ infinitive (jugar, salir, ir, ser, montar,			

hacer, comer, vivir etc.). E.g. voy a jugar = I'm going to play, vamos a salir = we're going to go out.

Connectives

y - and 10 pero - but porque - because 0 o-or también - also además - moreover luego - later

sin embargo - however no obstante - however sino - if not/but así que - so (that) Por eso - therefore por lo tanto - therefore aunque (+ subiunctive) although/even if

Opinions**

en mi opinión - in my opinion personalmente - personally lo bueno es - the good thing is lo malo es - the bad thing is a mi parecer - in my opinion pienso que - I think that creo que - I believe that Lo que más me gusta es - what l like most is Lo que menos me gusta es what I like least is me parece que - it seems to me that desde mi punto de vista - from my point of view lo meior es... - the best thing is... lo peor es... - the worst thing is. lo más importante es... - the most important thing is... lo menos importante es... - the least important thing is. lo que me interesa es... - what interests me is...

** see also opinion phrases in other units (İ like etc)

Frequency

generalmente - generally normalmente - normally siempre - always a veces - sometimes cada día - every day a menudo - often todos los días - every dav de vez en cuando - from time to time (casi) nunca - (almost) never en mi tiempo libre - in my free time el fin de semana - at the weekend una vez a la semana - once a week

Comparatives and Superlatives

es más (importante) que - it's more (important) than es menos (importante) que - it's less important) than Es tan (importante) como... - it's as important) as.. El/la meior – the best El/la peor – the worst El/la más (importante)... - the most (important). El/la peor (importante)... - the least (important).

Exclamations

¡Qué horror! How horrible! ¡Oué bien! Great! ¡Qué chulo! Cool! ¡Qué quay! How cool! :Ni en broma! No way! ¡Oué lastima! - What a shame! ¡Qué rollo! - What a pain/bore! ¡Qué desastre! - What a disaster! ¡Qué asco! - How disgusting!

Time fillers

a, sí, sí - yes, yes ya - yeah bueno - well pues - so a ver - let's see plural déjame pensar - let me think

Sequencers

por la mañana - in the morning por la tarde - in the afternoon por la noche - in the evening primero - firstly lueao - then después - next por fin - al last finalmente - finally el primer día - the first day más tarde - later antes - before después - after para empezar - to begin

Agreeing / disagreeing

claro que sí/no - of course (not) opino lo mismo - I think the same es cierto - it's certain ¿Estás loco/a? - Are you mad? (no) tienes razón - you're right, wrong (no) estov de acuerdo - I (dis)agree comparto tu punto de vista - I share vour point of view también me parece que - it also seems to me that tampoco me parece que - neither does it

seem to me that te equivocas - you're wrong/mistaken

Por un lado...por otro lado - on the one hand...on the other hand

Justifying opinions

porque (no) es... - because it is (not) va que es - as it is dado que es - given that it is puesto que es - since it is seqún (mis padres) es... - according to (my parents) it is... parece - it seems debido a - due to a causa de - because of una ventaja es - an advantage is..

Time markers

El presente el lunes - on Monday los jueves - on Thursdays ahora - now hoy - today hov en día - nowadays El pasado aver - vesterdav anoche - last night la semana pasada - last week en aquella época - in that time desde/hace dos años - two years ado cuando tenía cinco años - when I was 5 years old El futuro mañana - tomorrow

en el futuro - in the future el fin de semana próximo - next El año que viene - next year dentro de seis meses - in six months' time

Questions

;Oué? - What? ¿Quién? - Who? ;(A)dónde? - Where (to)? ;Cómo? - How? ;Cuál? - Which? ¿Cuándo? - When? ;Por aué? - Why? ;A qué hora? - At what time? ; Oué piensas de..? - What do you think about.? ¿Cuál es tu opinión? - What is your ¿Cuál es la diferencia? - What is the difference? ¿Qué hay? - What is there? ¿Por qué dijiste eso? - Why did you say that?

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Unit 1: Me Presento Introducing Myself

aludos	Greetings¡Hola! Hello!
Qué tal?	How are you?
Bien, gracias.	Fine, thanks.
enomenal	Great
Regular	Not bad
atal	Awful
Cómo te llamas?	What are you called?
Ae llamo	I am called
Dónde vives?	Where do you live?
/ivo en	I live in
Hasta luego!	See you later!
Adiós!	Goodbye!

Los días de la semana The days of the week

Lunes	Monday
Martes	Tuesday
Miércoles	Wednesday
Jueves	Thursday
Viernes	Friday
Sábado	Saturday
Domingo	Sunday
Los lunes	On Mondays
Los martes	On Tuesdays

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Qué tipo de What sort of persona eres? person are you? Divertido/a Amusing Estupendo/a Brilliant Fenomenal Fantastic Generoso/a Generous Genial Great Cool Guav Listo/a Clever Serio/a Serious Simpático/a Nice, kind Sincero/a Sincere Tímido/a Shy Silly Tonto/a Tranquilo/a Ouiet, calm

¿Que te gusta hacer?	What do you lik
Me gusta	I like
Me gusta mucho	I really like
No me gusta	I don't like
No me gusta nada	I don't like at all
Chatear	To chat online
Escribir correos	To write emails
Escuchar música	To listen to music
Jugar a los videojuegos	To play video gam
Leer	To read
Mandar sms	To send text mess
Navegar por internet	To surf the net
Salir con mis amigos	To go out with frie
Ver la television	To watch TV
Porque es	Because it is
Porque no es	Because it is not
Aburrido/a	Boring
Divertido/a	Amusing, funny
Estúpido/a	Stupid
Guay	Cool
Interesante	Interesting

Frecuencia	Frequency
A veces	Sometimes
De vez en cuando	From time to time
Nunca	Never
Todos los días	Every dayr!
¡Adiós!	Goodbye!

¿Qué haces en tu tiempo libre?	What do you do in your spare time
Bailo	I dance
Canto karaoke	I sing karaoke
Hablo con mis amigos	I talk with my frien
Monto en bici	I ride my bike
Saco fotos	I take photos
Toco la guitarra	I play the guitar

¿Qué tiempo hace?	What's the weath
Hace calor	It's hot
Hace frío	It's cold
Hace sol	lt's sunny
Hace buen tiempo	lt's nice weather
Llueve	lt's raining
Nieva	It's snowing
¿Qué haces cuando Ilueve?	What do you do when it's raining?

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¿Cuántos años tienes?	How old are you?
Tengo años.	I am… years old.
¿Cuándo es tu cumpleaños?	When is your birthday?
Mi cumpleaños es el de	My birthday is theof
Enero	January
Febrero	February
Marzo	March
Abril	April
Мауо	May
Junio	June
Julio	July
Agosto	August
Septiembre	September
Octubre	October
Noviembre	November
Diciembre	December

Mi pasión	My passion
Mi pasión es	My passion is
Mi héroe es	My hero is
El deporte	Sport
El fútbol	Football
La música	Music
El tenis	Tennis

Las estaciones	The seasons
La primavera	Spring
El verano	Summer
El otoño	Autumn
El invierno	Winter

¿Qué deportes haces?	What sports do you do?
Hago artes marciales.	I do martial arts.
Hago atletismo.	I do athletics.
Hago equitación.	I do/go horseriding.
Hago gimnasia.	I do gymnastics.
Hago natación.	l do/go swimming.
Juego al baloncesto.	I play basketball.
Juego al fútbol.	I play football.
Juego al tenis.	I play tennis.
Juego al voleibol.	I play volleyball.
¡Me gusta!	l like it!
¡Me gusta mucho!	I like it a lot!
¡Me gusta muchísimo!	I really, really like it!
¡Me encanta!	I love it!

Los números

Uno	1
Dos	2
Tres	3
Cuatro	4
Cinco	5
Seis	6
Siete	7
Ocho	8
Nueve	9
Diez	10
Once	11
Doce	12
Trece	13
Catorce	14
Quince	15
Dieciséis	16
Diecisiete	17
Dieciocho	18
Diecinueve	19
Veinte	20
Veintiuno	21
Veintidós	22
Veintitrés	23
Veinticuatro	24
Veinticinco	25
Veintiséis	26
Veintisiete	27
Veintiocho	28
Veintinueve	29
Treinta	30
Cuarenta	40
Cincuenta	50
Sesenta	60
Setenta	70
Ochenta	80
Noventa	90
Cien/ciento	100

Unit 2: Mi familia y otros animales (My family and other animals)

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Spanish

¿Qué animales tienes?	What animals do you have?
¿Qué animales quieres /prefieres?	What animals do you want/ prefer?
Tengo	I have
Prefiero	I prefer
Quisiera/ me gustaría	I would like
Un gato	A cat
Un perro	dog
Un caballo	A horse
Un ratón	A mouse
Un pez	A fish
Un conejo	A rabbit
Una serpiente	A snake
Una cobaya	A guinea pig

¿Cuántas personas hay en tu familia?	How many people are there in your family?
En mi familia hay/no hay	In my family there is / there isn't…
Mi madre	My mum
Mi padre	My dad
Mi hermana	My sister
Mi hermano	My brother
Mi abuela	My grandma
Mi abuelo	My granddad
Mi prima	My female cousin
Mi primo	My male cousin
Mi sobrina	My niece
Mi sobrino	My nephew

ave? ant/	¿Cuál es tu animal favorito?	What is your favourite animal?
	Mi animal favorito es porque/ ya que esis	My favourite anim- because it is
	cariñoso/ a	loving
	mono/ a	cute
-	como un peluche	like a teddy-bear
_	peludo/ a	fluffy
	suave	soft
_	inteligente	intelligent
_	valiente	brave
	amable	friendly

¿Cómo se llama tu padre?	What is your dad called?
Se llama	He/ she is called
¿Cuántos años tiene tu padre?	How old is your dad?
Tiene años	He/ she is years old

Blanco	White
Negro	Black
Rojo	Red
Amarillo	Yellow
Morado	Purple
Gris	Grey
Verde	Green
Azul	Blue
Rosa	Pink
Rosa Naranja Remember t	Pink Orange
Rosa Naranja Remember t ending if the describing is plural.	Pink Orange to check the e noun you are feminine or
Rosa Naranja Remember t ending if th describing is plural.	Pink Orange to check the e noun you are feminine or
Rosa Naranja Remember t ending if the describing is plural. You can repla	Pink Orange to check the e noun you are feminine or
Rosa Naranja Remember t ending if the describing is plural. You can repla any family me	Pink Orange to check the e noun you are feminine or ce 'padre' with ember or the
Rosa Naranja Remember t ending if the describing is plural. You can repla any family me name of some	Pink Orange to check the e noun you are feminine or ce 'padre' with ember or the eone.
Rosa Naranja Remember t ending if the describing is plural. You can repla any family me name of some Example	Pink Orange to check the e noun you are feminine or ce 'padre' with ember or the eone.

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Los numero	s
Uno	1
Dos	2
Tres	3
Cuatro	4
Cinco	5
Seis	6
Siete	7
Ocho	8
Nueve	9
Diez	10
Once	11
Doce	12
Trece	13
Catorce	14
Quince	15
Dieciséis	16
Diecisiete	17
Dieciocho	18
Diecinueve	19
Veinte	20
Veintiuno	21
Veintidós	22
Veintitrés	23
Veinticuatro	24
Veinticinco	25
Veintiséis	26
Veintisiete	27
Veintiocho	28
Veintinueve	29
Treinta	30
Cuarenta	40
Cincuenta	50
Sesenta	60
Setenta	70
Ochenta	80
Noventa	90
Cien/ciento	100

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Unit 2: Mi familia y otros animales (My family and other animals)

¿Cómo eres?	What are you like?
¿Cómo es?	What is he/she like
Tengo los ojos	I have eyes
Tiene los ojos	He/she has eyes
Azules	Blue
Verdes	Green
Marrones	Brown
Grises	Grey
Grandes	Big
Pequeños	Small
Tengo el pelo	I have hair
Tiene el pelo	He/she has hair
Moreno	Dark-brown
Castaño	Mid-brown, chestnu
Rubio	Blond
Rojo	Red
Corto	Short
Largo	Long
Rizado	Curly
Liso	Straight
Ondulado	Wavy
Soy	l am
Es	He/she is
Alto/a	Tall
Bajo/a	Short
Delgado/a	Slim
Gordito/a	Chubby
Gordo/a	Fat
Calvo/a	Bald
Moreno/a	Dark-haired
Rubio/a	Fair-haired
Castaño/a	Brown-haired
Pelirrojo/a	Red-haired
No es ni gordo/a ni delgado/a	He/she is neither fat nor thin

¿Qué haces (con tu	
familia/amigos)?	
Cuando tengo tiempo	
Después del insti	
Los fines de semana	
Los (lunes)	
Por la mañana / tarde	
Por la noche	
Cocino	
Juego al futbolín / al squash	
Monto en bici / monopatín	
Toco la guitarra / la trompeta	
Voy / vamos	
Al polideportivo / al	
centro Comercial / a	
la pista de Hielo / a la	
bolera	
Suelo	
Descansar	
Escuchar música / la radio	
Hacer deporte	
Ir al cine	
Leer libros / revistas	
/ periódicos	
Salir con amigos	
Usar el ordenador	
Ver la tele	
Es divertido / sano	
Soy	
Activo/a / creativo/a	
Sociable / adicto/a a	
Me hace reír / relajarme	
Necesito estar	
Al aire libre	
En contacto con	
otra gente	

Year 7 | Knowledge Organiser

/hat do you do (with mily/friends)?
/hen I have time
fter school
t weekends
n (Mondays)
the morning/ ternoon/evening
t night
ook
olay table football / Juash
ide my bike / skateboard
olay the guitar / trumpet
jo / we go
the sports centre / to
e Shopping centre /
the ice rink / to the
owling alley
end to /I usually
est
sten to music / the radio
o sport
o to the cinema
ad books/magazines
ewspapers
o out with friends
e the computer
atch TV
s fun / healthy
m
tive / creative
ciable / addicted to
makes me laugh / relax
eed to be
utdoors
touch with other

¿Cómo es su personalidad?	What is he/she like as a person?		
Como persona, es	As a person, he/she is		
Optimista	Optimistic		
Pesimista	Pessimistic		
Trabajador(a)	Hard-working		
Perezoso/a	Lazy		
Hablador(a)	Chatty		
Tímido/a	Shy		
Divertido/a	Fun		
Serio/a	Serious		
Gracioso/a	Funny		
Generoso/a	Generous		
Fiel	Loyal		
Molesto/a	Annoying		
Travieso/a	Naughty		
Estricto/a	Strict		
Malhumorado/a	Bad tempered/moody		
Cariñoso/a	Loving/affectionate		
Alegre	Cheerful		
Enérgico/a	Energetic		
Animado/a	Lively		
Pensativo/a	Thoughtful		
Egoísta	Selfish		
Comprensivo/a	Understanding		

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68	www.rrma.org.uk	5	Year 7 Knowledge Organiser
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Y7 KNOWLEDGE ORGANISER

SEPTEMBER 2024 TO FEBRUARY 2025