MOUNTAINS OF THE WORLD

Huge and often striking, mountains can be found all over the world. They create picturesque backdrops and provide extreme sports enthusiasts with climbing, trekking and skiing opportunities – but what are they, exactly? Mountains are areas of land that are higher than the land around them, but different definitions based on height exist. In Great Britain, the government's definition is a summit of 600 metres or higher. However, mountains can rise to thousands of metres in height

Mountains are created by areas of Earth's solid crust, called 'tectonic plates', moving on the liquid magma beneath them. Some are made when plates push together and force the ground up where they meet. Some are created by magma erupting from gaps between the plates. Others have been created by underwater volcanoes, when lava reaches the surface.

A group of mountains together is known as a mountain range. Some of the world's best-known ranges include the Alps in Europe, the Rocky Mountains in North America and the Himalayas in Asia. Some of the world's best-known mountains – although not all the highest – are Everest, Kilimanjaro, Fuji and Vesuvius.

Everest

Undoubtedly the most famous mountain of them all, Everest is in the Himalayas in Asia. It is the highest mountain in the world, at a staggering 8,848 metres tall.

Many adventurous climbing enthusiasts have attempted to climb it. At times, it can be so busy that queues form along the route to the summit. Over 5,000 brave climbers are said to have reached the top, but nearly 300 have died during their attempts.

Climbing Everest requires intensive training and can cost a lot of money. Many climbers take on the challenge in order to raise funds for charities.



Kilimanjaro

Kilimanjaro is Africa's highest mountain. It is located on the northern border of Tanzania, overlooking Kenya. Its summit rises to 5,895 metres – almost 3,000 metres lower than Everest's. Despite its location, its peak is covered with snow and ice all year.

Kilimanjaro is made up of three inactive volcanoes: Kibo, Mawensi and Shira. Shira is the oldest peak. Kibo is the youngest and had the most recent major eruption – but that was around 360,000 years ago.

Fuji

Fuji, the highest mountain in Japan, is 3,776 metres tall. It is situated to the west of the capital city of Tokyo. Fuji is a volcano too, and its last major eruption was far more recent than Kibo's, in 1707. Despite being inactive for more than 300 years, it is still classified as active by geologists.

Fuji's conical appearance is famous across the world, and is an important and sacred symbol in Japan. It is also a hugely popular tourist site. Each summer, thousands climb to its snowy peak.

Vesuvius

Vesuvius is possibly the most infamous mountain in Europe, although it is only 1,280 metres tall. It's in southern Italy, close to the city of Naples – but even closer to Pompeii.

Vesuvius became famous in a dramatic way. In 79 CE, it erupted and covered the cities of Pompeii, Herculaneum and Stabiae in lava, ash and burning mud. It wasn't until the 17th and 18th centuries that archaeologists discovered these cities buried beneath them, and began to explore their remains. Huge areas of the ancient cities were discovered, many of which were well preserved due to the speed at which they were covered. The area has provided us with an incredible insight into Roman life, and now attracts millions of visitors each year.

Vesuvius is still considered to be an active volcano – and it's thought to have erupted over 50 times during the last 2,000 years.

123 SEQUENCING W Look at *Mountains of the world*. Number the statements from 1 to 5 to show the order they occur Look at *Mountains of the world*. Number the statements from 1 to 5 to show the order they occur in the text. Look at the first line of each paragraph tow help you.

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Look at the second to last paragraph in *Mountains of the world*. Number the statements from 1 to 5 to show the order they occur in the text.

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Some of the world's best-known ranges include the Alps in Europe, the Rocky Mountains in North America and the Himalayas in Asia.

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	INTAINS O	OFTHE	WORLD	
2				-

@mountains of the world @FILL IN THE GAP



Read the sentences and choose the c	orrect word or words to fill the gap.
They create	backdrops and provide extreme sports enthusiasts with hities – but what are they, exactly?
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3 THE GUNPOWDER PLOT

Across Great Britain, fireworks and bonfires are lit on 5 November – they serve as a colourful reminder of a significant event in history. The name of Guy Fawkes is remembered and models called 'guys' still burn on many bonfires.

However, it was actually another man, Robert Catesby, who thought up the famous and doomed Gunpowder Plot.

The plot

The Gunpowder Plot was a plan to destroy the Houses of Parliament in London and kill the king, James I.

It was motivated by religion. Protestant and Catholic people are all followers of Christianity, but with differences of opinion about how to practise their faith. James I was a Protestant ruler, and the plotters were Catholic. They wanted to return Britain to Catholic rule.

Robert Catesby: plotter in chief

Robert Catesby was born around 1572, in Warwickshire. His parents were Catholics and, after a rebellious youth, Catesby too became strongly religious.

The Gunpowder Plot was not his first attempt at rebellion. In 1601, he was involved in the failed uprising of the Earl of Essex against Queen Elizabeth's chief advisor, Robert Cecil. Catesby's actions saw him wounded, imprisoned and fined. He was also believed to have discussed a further rebellion with the Spanish government.

Catesby fell under the suspicion of the British government, who saw him as a threat.

Catesby meets Fawkes

Guy Fawkes, also known as Guido Fawkes, was born in 1570, in York. Despite coming from a Protestant background, he converted to Catholicism as a child.

When he was 21, Fawkes left England to join the Catholic Spanish army during the Eighty Years' War. He was approached to take part in the Gunpowder Plot because of his military background and experience.



Comprehension Ninja 9-10 © Andrew Jennings, 202

The murderous plan

Catesby grew more and more dissatisfied with Protestant rule, which treated Catholics badly. His solution was the murder of the king.

He shared his plan initially with Christopher and John Wright and Thomas Winter. Winter travelled to Spain, which was under Catholic rule, hoping to find support. There he met Guy Fawkes, who returned with him. In 1604, Catesby made the plot with the Wrights, Fawkes and Thomas Percy before recruiting others to join them.

Set-up and downfall

The plotters rented a cellar below Parliament. Here, Fawkes planted barrels of gunpowder and camouflaged them with coal and firewood. He was to light the fuse and then flee to Europe. The plan seemed sure to succeed.

Then one of Catesby's recruits sent a letter to his brother-in-law Lord Monteagle, warning him to stay away from Parliament. Uncertain of its meaning, Monteagle passed on the letter, and it reached the king's advisors. Guards searched Parliament and raided the plotters' cellar – where they discovered Fawkes and the gunpowder. Fawkes was arrested and taken to the king on 5 November 1605.

The plotters' discovery

Fawkes was tortured, revealing the names of his accomplices. He was tried for his crimes and sentenced to death.

Catesby and others fled London but were tracked to Staffordshire. The authorities wanted to return them to London for a public execution. The plotters, however, decided to die fighting. After his death, Catesby's head was cut off and taken back to London.

Remember, remember ...

A popular rhyme reminds people of the events of 1605:

Remember, remember, the fifth of November: gunpowder, treason and plot.

I see no reason why gunpowder treason should ever be forgot!

Bonfire Night's fireworks represent an explosion that never happened. The burning of the guy represents the plotters' punishment – but it's only Fawkes whose figure ^{Is use}d. Is that fair?

^{Perhaps,} if you celebrate, you could remember Catesby instead!

UNDERLINE OR HIGHLIGHT

ead the paragraphs below and then follow the instructions.

The plotters' discovery

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Underline or highlight a word that means a crime which hopes to overthrow the government.

Underline or highlight a word that means in front of all the people in a community.

Underline or highlight a word that means to deliberately cause pain over a period of time.

Underline or highlight a word that means someone who helps commit a crime.

Underline or highlight a word that means an explosive substance.

Underline or highlight a word that means to kill as a punishment for a crime.

3 THE GUNPOWDER PLOT

C LABEL



duo planned to blow up	
born in Warwickshire	
failed rebellion against	
thought up the gunpowder plot	
first rebellion leader	
Robert Cecil was advisor to	

Label the information with the correct person or place.

alternative name for Guy Fawkes	
Gunpowder Plot designed to kill	
Catesby shared initial plans with	
letter sent to	
- Addiram	
Catesby fled from	
Catesby tracked to	
Label the information with the correct person	or place.
Born in Vork	

Catesby's head taken to

fireworks and bonfires are lit

decided to die righting.

discovered under the Houses of Parliament

joined the Catholic Spanisharmy

60	and the second sec								
Apostrophe Practice									
You can use apostrophes to show where letters are missing, or to show possession for nouns. Remember that 'its' and 'it's' are two different words.									
1 Shorten these words using apostrophes.									
what will 📂	who is 🗾 🛁								
are not 🛛 🛁 🔶	when has 🛶								
you would 🗾 📂	does not 🗾								

Fill in the missing gaps with the short and long versions of the words.

is not			let's
· · · · · · · · · · · · · · · · · · ·	where'll		hasn't
why is		we would	
have not			he's
	might've	should not	

Add apostrophes to the underlined words below, if they are needed.

My <u>h a m s t e r s</u> name is Hector, and <u>I v e</u> had him for two years.

The shark showed <u>its</u> teeth and swam towards the <u>fishermans</u> boat.

<u>Its</u> been a great day, but now the park is shutting <u>its</u> gates.

<u>D i n a s</u> going to her <u>d a d s</u> house tomorrow because <u>i t s</u> Wednesday.

Rewrite each phrase so that it changes from singular to plural.



Draw lines to match the each phrase to its correct meaning.



6	<u>Write two</u>	sentences	about the	<u>picture</u> ,	one usi	ng ' <u>its</u> '	and one	e using ' <u>it</u> '	's'.	
										•••
								aronaro secono en este	and the second second second	
	"I can us	se apostroph	es correcti	y."			60		? ()	
	了一些,是 是是一些。		的一些,我们的人们的问题		Service (19) and	AND A COMPANY	Providence and the second			-

Sentence Practice

Remember — sentences should always start with a capital letter. They can end with a full stop, a question mark or an exclamation mark.

Write the most likely <u>final punctuation</u> at the end of each sentence. Then write whether each sentence is a <u>question</u>, an <u>exclamation</u>, a <u>command</u> or a <u>statement</u>.

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John asked when they were leaving....

Wow, Amelia, this cake is fantastic....

Switch the appliance off at the mains....

What time do you think we should leave....

Go to the head teacher's office immediately....

			•		•	•	•	•	•	•	•		•	4	•	•	•	4	•		•		a	•	•	•	•	•	a		5	
		•			•						•	•	•		•	•			•	a		•	•				0			•	•	
		•								,			•				•			•						•	•	4	•	•	•	
		•	•	•	•	•	•		•				•		•	•	•	•	•	•	•	9	•		•	•			•			

Write a <u>sentence</u> for each of the pictures below. Make sure you have one that ends with a <u>full stop</u>, one with a <u>question mark</u> and one with an <u>exclamation mark</u>.



Question Marks

Questions always end with a question mark and often begin with a question word. When are we leaving? Why are you running?

Draw lines to match each sentence to the correct punctuation mark.

Where are you going on holiday Here are those gloves you lost Let's go shopping tomorrow Is this your idea of a joke Would you like ketchup

and the second





Write a <u>question</u> to <u>match</u> each of the <u>answers</u> given below.

Q:		
A:	I will. I'm excellent at map-reading.	Use a <u>capital letter</u> to start your sentence, and a <u>question mark</u> at the end
Q:	A packed lunch and a waterproof jacket.	<u>question mark</u> at the end.
A:	A packed lunch and a waterproof jacket.	
Q:		
A:	No thanks, I'm a vegetarian.	
Q:		
A:	Yes, that's fine. I'll come at six o'clock.	

50			- Color
	Exclamat	ion Marks	AT A
	Exclamation marks show that somethin loudly or with strong emotion. This typ sentence is called an exclamation. Exclamation marks are also used for st But if the command isn't urgent or stro	Go away!	a state of the
1	Tick the three <u>commands</u> which are n	most likely to end with an <u>exclamation man</u>	<u>ark</u> .
	Shut up	Quick, get out of here	
	Let me help you	Please wait here	
	Stop that, now	Please stop crying	
2) Use <u>full stops</u> and <u>exclamation mark</u>	<u>s</u> to complete these sentences.	
	Ouch, that really hurt		
	My brother is really good at playir	ig the piano	
	Watch out, it's going to fall over		
	The bathroom is the second door o	on the left	
3	Write an <u>exclamation</u> using the grou	ıp of words below.	
	sledge hill crashed		

.....

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Capital Letters and Full Stops

Sentences always start with a capital letter and often finish with a full stop. Sentences that finish with a full stop are called statements. Use capital letters for I and for names of particular people, places or things.

On Wednesday, I am going to London with my sister.

Circle the words below that should have capital letters.

eiffel tower	castle	tomorrow	spain
ashley	city	friday	christmas

Put a <u>tick</u> next to the sentences that use <u>capital letters</u> and <u>full</u> <u>stops</u> correctly and put a <u>cross</u> next to the ones that <u>don't</u>.

mrs Flint is thirty-two her birthday is in may.

My dad's favourite sweets can only be bought in Canada.

My Best Friend is called Amy. She lives in Bath

Jack's dog is called Spot. Spot is a Dalmatian.

I play cricket every Friday evening.

Rewrite the <u>incorrect</u> sentences with capital letters and full stops in the right places.

There's more about Writers vary their writing style depending on their audience - the person or people the writing is aimed at.

When writing for adults, you might use complex words and longer sentences. When writing for children, you might use simpler words and shorter sentences.

Film of the Month

These are extracts from two reviews of the same film. Draw a line from each extract to the audience it is aimed at.

Trish Lolam's latest comedy hit, 'Hole in None', brings to mind her superb debut, which won awards in 1993.

Do you enjoy comedy films filled with jolly jokes and silly stunts? Then you will love 'Hole in None'!

Circle the correct options from the words in bold to make the film review extract suitable for children.

Golf comedies are rare, but 'Hole in None' is the funniest / most laughter-inducing film in years. The plot is really good / masterful: Reuben, a former golf caddy, is in financial difficulties I short of money when he hears about a golf tournament with a **generous / big** cash prize. Hilarity ensues / Things turn funny when he

tees off against the golfer he caddied for before their ugly falling out.



Children

Think about what makes writing suitable for children. = suitable for children. =

SHUHHHHHHHHHH

writing for an

audience on p. 3.



These sentences from a review of the same film are aimed at adults. Rewrite the sentences so they are suitable for children — use simpler language and split up the sentences. Use a dictionary for any words you don't know.

The screenwriter creates hilarious dialogue, including the sarcastic insults and

witty responses of the two main characters.

.....

.....

Bryan Penholds, the actor who portrays Reuben, has been nominated

for numerous acting accolades.

Below is an extract from a review of the same film. Underline the words and phrases that show it is aimed at children, then rewrite it for an adult audience.

The coolest part of the film was the golf buggy chase at the end. The super-fast music as the good guy weaved past golfers at top speed was fab. The stuntman was awesome, which made the scene extra funny. You could use a thesaurus to help find suitable words.



25

The Wizard of Whitby

When you are writing a story, you need to describe the characters effectively so readers can picture them clearly and get to know what they're like.

To create lifelike characters, you can use similes and metaphors. Language which appeals to the senses (sight, hearing, touch, taste and smell) can also help to create a vivid image of your characters.

This is an extract from a fantasy story about a wizard. Underline the similes and circle the metaphors.

Wilbert's feet were heavy weights as he trudged inside and removed his hat and cloak. His eyes were usually twinkling stars, but now they were like dull, grey pools. Yet again, he'd had no new spells to show off at the annual wizarding conference. He felt as useless as a paper umbrella.



See p.27 for

more on these

techniques.

Choose one metaphor or simile and explain what it shows about Wilbert.

Fill in each gap using a simile or a metaphor to create a vivid image of Wilbert. Wilbert was old. His lined face was and he moved as as Achieving something unique with his magic was his desire, something that people would remember, but he felt his powers slipping away like

3	Draw a line from each of these sentences to the sense it appeals to	•							
	Wilbert wrinkled his nose at the burnt stench of a failed spell from the night before.								
	He smoothed the coarse, wiry hairs Taste of his long beard absent-mindedly.								
	He took a soothing sip of strong tea.								
	Explain how one of these appeals to the senses makes you feel.								
(4)	Fill in each gap with an appeal to the senses to vividly describe Wilbe	rt and his owl.							
	Wilbert felt tears trickling down his	Think about how = you want the = characters to =							
	cheeks and brushed them away. He heaved himself out of his								
	chair, his joints even to wards with the effort, and trudged towards								
	his bedroom. As he passed his owl, she gave a	and							
	nestled close to him. Wilbert breathed in her	scent.							
5	Rewrite the extract below to create a vivid image of Wilbert and wh	nat he's doing.							
	Wilbert pulled his blanket around himself and fell asleep. His gentle snores grew								
	louder. At a sudden noise from outside, he opened his eyes and lo	oked around.							
		E and appeals E							

Singular	Plural
1. person	
2. cherry	
3	cactuses or cacti
4. industry	
5	sheep
6	scarves
7. woman	
8. vertebra	
9	parentheses
10. calf	······

Write the singular or plural form for each noun.

		t pronoun from the	e box to replace the	underlined nou	n in each				
sente	ence. she	wə	they	him	US				
: 1.	It's Dad's birthday. Mum bought <u>Dad</u> a new watch.								
2.	. Our car broke down. Will you take <u>Keith and me</u> to school?								
3.	<u>Hannah</u> makes her own jewellery.								
4.	Our neighbours left, but <u>the neighbours</u> are coming back soon.								
5.	<u>My brothe</u>	<u>rs and I</u> are throwin	ng a party for my m	nother					
Write	the correction only of	t pronoun from the	e box to complete e	each sentence.	Use each				
	you	 I	it	he	them				
6.			we brought		e chocolate.				
7.		look like y	vou have seen a gh	ost!					
8.	. The gardeners who were searching for the rabbit finally noticed								
9.	brought him some of my homemade chicken soup.								
10.		got in tro	uble for hitting his si	ster.					

.

1. Tony (doesn't/don't) like chocolate cake.

2. However, our brothers and my mother (love/loves) it.

3. They always (order/orders) chocolate cake for dessert at restaurants.

4. Tony (ask/asks) for cheesecake with fruit.

5. He usually (do/does) not finish it, though.

6. Mum (eat/eats) the leftovers.

7. Dad, Lisa and Mum (prefer/prefers) chocolate cake.

8. Mum says it isn't good to eat until you (is/are) stuffed.

9. Dad does not listen, and he (do/does) it anyway.

10. Mum just (shake/shakes) her head.

Underline the common noun(s) and circle any proper noun(s) in each sentence. The number in brackets tells how many total nouns you should underline or circle.

1. Stephen visited the United States capital, Washington, DC, last winter. (5)

2. He met his grandfather and his cousin, Joseph, there. (3)

- 3. They visited the Washington Monument and the Lincoln Memorial. (2)
- 4. Papa Joe wanted to visit the Vietnam Veterans Memorial. (2)
- 5. They could see the dome of the United States Capitol from the National Mall. (3)
- 6. Stephen attends Gallaudet University in the city. (3)
- 7. Stephen and Joseph chatted excitedly as they walked along Pennsylvania Avenue. (3)

8. They took photos of the White House but did not see the president. (3)

- 9. Stephen had bought a small souvenir flag of the United States. (3)
- 10. Joseph bought postcards of the Oval Office and the USS Philadelphia. (4)

Square and cube numbers

To find a **square number** you need to multiply a number by itself.

To find a **cube number** you need to multiply a number by itself twice!

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B=

]				
Write a square number less than 10.	Write a cube number less than 30.				
3 × 3 = 9, so 9 is a square number that is less than 10. The simple way to write 3 squared is 3 ² .	3 × 3 × 3 = 27, so 27 is a cube number. The simple way to write 3 cubed is 3 ³ .				
Ruby					
Write down the square number(s) in each set.	Write down the cube number(s) in each set.				
1 3 7 9 15 18 21	4 8 16 32 40 48 55				
2 4 25 35 42 52 60	5 4 9 15 64 81 100				
3 5 17 36 41 70 82	6 1 5 26 36 60 125				
Pearl					
Calculate these square numbers.	Calculate these cube numbers.				
1 2 ²	4 4 ³				
2 5 ²	5 2 ³				
3 6 ²	6 3 ³				
Diamond					
1 A square has an area of 121 cm ² .	3 Joe says the sum of the first five square				
What is the length of its side?	numbers is equal to 11 groups of five.				
2 Which three different square numbers add	Do you agree? Explain your reasoning.				
together to make 140?	4 Raj thinks of a number and cubes it. He gets 1,000. What was his number?				
 + <u></u> = 140	5 Amy tells Dan that 1 is a cube number.Convince Dan that Amy is correct.				



You may photocopy this page.

NUMBER – number and place value								
Number sequences								
A sequence is a pattern of numbers or shapes that follows a rule.								
Each number in a number sequence is called a ${f t}$	ach number in a number sequence is called a term .							
 This is a sequence of numbers: 45,536, 45,636, , 45,836, 45,936, To find the missing terms in the sequence: 1 Find the rule for the number sequence by calculating the difference between two consecutive terms. The difference between 45,536 and 45,636 is 100, the rule is + 100 2 Apply the rule to the sequence. 45,636 + 100 = 45,736 and 45,936 + 100 = 46,036 								
Ruby Find the rule for each number sequence. 1 225, 250, 275, 300, 325, 350, 375 2 2,000, 3,000, 4,000, 5,000, 6,000, 7,000, 8,000 3 280, 287, 294, 301, 308, 315 Pearl Second	Complete the missing numbers in each number sequence. 4 909, □, 927, 936, □, 954, 963, 972 5 □, 690, 700, 710, □, 730, 740, 750 6 240, 246, □, 258, 264, 270, 276, Complete the missing numbers in each number sequence. 4 6,689, □, 6,889, 6,989, □ 5 15,678, 14,678, □, □, 11,678 6 99,078, □, □, 129,078, 139,078							
 Jake says that if you count in steps of 1,000 from any number, each term in the number sequence will end in three zeros. Do you agree? 	 Write a sequence counting in steps of 1,000 that could include these two terms. 3 Sam describes this sequence as counting in steps of 102. 							
2 Two terms in a sequence are 15,678 and	1,456, 1,556, 1,656, 1,756, 1,856							
11,678. These terms are not consecutive.	Do you agree? Explain your thinking.							

能加強的法律的理解的思想的问题。目的问题的思想的思想的思想的思想。

I can use am and pm for 12-hour clock times and convert these to 24-hour clock times.

Analogue clocks have faces. Read the minutes as: *past* before 30 minutes *to* after 30 minutes.

Digital clocks have figures only. The minutes are always shown as minutes past the hour.

12-hour clock time uses am and pm. am means before 12 noon. pm means after 12 noon.

24-hour clocks always have four digits on display. Midnight is 00:00.





morning 8:22 am



6:48

evening 6:48 pm





Write each time shown to the nearest minute: b) in 12-hour clock time using am and pm. a) in words Ø 6 9 œ 61 night night afternoon morning afternoon 18 10 14 2 6 9:43 12:03 12 7.7' evening evening afternoon lunchtime morning 19 15 1 3 7 morning breakfast evening night morning (12) (16 (20 8 4 5:58 4:49 10:0 5:2: morning morning morning night night

Multiply and divide by 10, 100 or 1,000

To **multiply** by 10, 100 or 1,000 moved the digits to the **left** 1, 2 or 3 places. To **divide** by by 10, 100 or 1,000 moved the digits to the **right** 1, 2 or 3 places. A place-value grid is very useful to help do this!



		thousands						·	<u>1</u> 10	
		Т	0	н		Т	0	·	t	
				4	_	5	6		0	
	× 100		4	5		6	0	· 	~	
	÷ 100					4	5	[.]	6	
Rub	y Ç		สารสองรายอาการสารสารสารสารสารสารสารสารสารสารสารสารสา	and the second secon		n all a frank an	2017-1105-079-2016-110-110-110-110-2016-110-2017-11		1949 - 1949 - 1949 - 1949 - 1949	
Multip	ly these	numbers	by 10 and 1	100. E	Divio	le these	numbers k	oy 10	or 100.	,
1α6	× 10	b 6×10	0	4	a	8 ÷ 10	b 8÷′	00		
2 a 2 [°]	7 × 10	b 27 × 1	00	5	a	34 ÷ 10	b 34 ÷	- 100		
3 a 3	× 10	b 3 × 10	0	6	a	78 ÷ 10	b 78÷	- 100		
Pearl										
Multip	ly these	numbers b	y 10, 100 or	1,000. E	Divide these numbers by 10, 100 or 1,000.					
1 342 :	× 10			4	4 2,748 ÷ 10					
2 71.4	5 × 100			5	5 235.95 ÷ 100					
3 802. ⁴	1 × 1,000			6	6 614.78 ÷ 1,000					
Diar	mond		ngaya yana mantu manus manusan angan Bandari kasa nga nanga nga sanga nga sang I		577737-77843					
1 Jake	says 7 ×	100 is the s	ame as 70 ×	10. 3	Do	ın collect	s 1p coins i	n his r	noney j	ar. He
Do y	ou agree	? Explain y	our reasoniı	ng.		s saved £ oney jar?	106. How r	nany	coins ar	e in the
by 1,	Tom says: 'If I divide a four-digit number by 1,000 it always has a number after the decimal point.'				4 a Sam says after dividing his number by 1,000 his answer is 67.23. What is Sam's number?					
ls he	Is he right? Explain your answer.					Lou says by 100 h Lou's nu	after mult Ier answer mber?	tiplyir is 54.9	ng her n 98. Wha	umber t is

-18 1

- <u>M</u>

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38

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74 (4) 3 6 (1)

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(8.9) (8.9)

- 181

201

2 10 10 12 10 10

75 (E) 72 (E)

27 21

3 3 3 3

33

- 23

<u>8</u>.9

74

20 A

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i in the second se

284 284

8 8 I

SU

BH

The value of a digit in a number depends on its **position** in the number.

Read the number 764,132. Use the **place value** of each digit to help you.

To identify place value, write each digit under the correct place-value heading.

	thousands					
М	Н	Т	0	Н	Т	0
	7	6	4	1	3	2

So 764,132 is seven hundred thousand, sixty-four thousand, one hundred and thirty-two.

Write the value of the digit 7.	Complete the missing numbers.				
1 7,996	4 8,782 = + 700 + 80 +				
2 4,437	5 56,845 = + 6,000 + 800 + + 5				
3 57,892	6 89,433 = 80,000 + + + + 30 + 3				
Pearl					
Write the value of the digit 2.	Complete the missing numbers				
Ŭ	Complete the missing numbers.				
1 342,567	5 754,892 = + 50,000 + + 800 + 90 + 2				
2 298,105	6 612,561= 600,000+ + 2,000 + + 60 + 1				
3 147,625					
4 327,803					
1 Bev says 706,542 is larger than the number 43,598 but the value of the digit 5 in both the numbers is the same. Do you agree? Explain your reasoning.	3 Write four different numbers that contain five ones and six hundreds. Which is the largest number in your data set? How do you know?				

4 A 4-digit pass code for Gavin's banking app is made from the digits 7, 5, 3, 2. The pass code is less than the number 5,000. What are the possible pass codes for Gavin's banking app? Use each digit once only.

2 Use the digits 4, 5, 1, 8, 7, 6 to write the

Now use the same digits to write the

smallest six-digit number you can.

largest six-digit number you can.



Copy and complete the table.

R

TIME IN WORDS	12-HOUR CLOCK	24-HOUR CLOCK
quarter to eight in the morning	7:45 am	07:45
		20:30
		10:35
		03:52
		14:24
	4:08 am	
	10:19 pm	
	. 9:37 am	
	6:16 pm	
28 minutes past 11 in the morning		
7 minutes to 7 in the evening		
4 minutes past 1 at night		
12 minutes to 4 in the afternoon		

Por each of the above times work out how many minutes there are to the next hour.



33

d j m r p d w t r e t s s g r c e w o l u h e v s n h s l m d t n u r r l e r b e o o w q k e o i o n r l v e r u r h p k c t u a y i e e t e t c e y y n g i t l n n h d f e a r x u h i h c o p e g l f d k e a f b i h y x r x f r i e h t y l n q r t e e c e r d h d e k g d e t s e r e t n i g l l e g v b e c a u s e s w d u r s e l i k e d e h g u a l o w e s h o u l d g p y x k f w k u p s o p v i y t k q e d c a k j d i c w o u p o b w z e y v

across because before could different évérvoné everything excited explained Interested laughed liked morning pulled should shouted thelr there think through were where would

Class

Recall multiplication and division facts for tables up to 12×12





2 Complete the missing numbers in the multiplication table, as quickly

as you can.



×	4		7			
5		30			55	
	44					132
	48	-		96		

3 Complete the calculations below.









39



Class.....

Date.....

Identify multiples and common multiples







3 Solve the code to find the missing word.

u	t	S	r	р	0	g	f	d	С	b	a	
32	21	42	132	48	36	33	12	63	24	42	15	
A multiple of 5 .												
A multiple of 8 below 30 .										Ø		
The lowest common multiple of 3 and 7 .										6		
A common multiple of 9 and 3 between 30 and 40 .										Ø		
A common multiple of 2 , 3 and 11 , but it's not the lowest common multiple.									6			
	·							nade?	been m	ord has	What w	0
	le.	multip	ommon	 owest co		en 30 a	3 betwe	ultiple 9 and 3 2, 3 an	below : nmon m ltiple of ltiple of	ple of 8 rest com non mul	A multij The low A comn A comn	

YEAR 5

Do animals have different gestation periods?		Fun facts:		
What does 'gestation' mean?			Did you know?	
Gestation Periods Information Booklet				By

Materials Properties

Differentiated Property Words

Easy	Medium	Hard
smooth	flexible	non-magnetic
blunt	transparent	magnetic
strong	dull	reflective
soft	tough	absorbent
bendy	runny	permeable
stretchy	waterproof	brittle
hard	opaque	translucent
weak	solid	conductive
rough	rigid	slimy
sharp	shiny	liquid







Materials Properties and Definition

Put the correct definitions with the property words in this table.

magnetic	
reflective	
absorbent [.]	
permeable	
translucent	
flexible	
hard	
flammable	
insulating	
transparent	

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Page 2 of 3

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Is attracted to magnets.	Easy to bend.
Will bounce light off its surface.	Will easily catch fire and burn quickly.
Is able to soak up liquid easily.	Solid, firm and rigid, not easily broken, scratched or pierced.
Will allow liquids and gasses to pass through it.	Will stop energy such as electricity or heat from transferring through.
Will let some light pass through them but not enough to see detailed shapes.	Light passes through easily and objects are seen clearly.

Materials Properties and Definitions

What object is it?	What is it used for?
What materials are used?	Why choose those materials?





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	Revision Activity Mat	÷
Match the state of matter to the picture that shows how the particles behave.	Fill in the gaps by writing the name of the state of matter next to the correct description.	Explain why the properties of these materials make them suitable for their uses.
solid	are materials that take the shape of their container. They can flow or be poured.	A glass window:
liquid	are materials that keep their shape unless force is applied to them. They can be hard, soft or squishy.	A copper saucepan:
gas	are materials that do not have a fixed shape but do have a fixed mass.	
Write the meaning of these properties of materials. permeable	Complete the sentences with the name of the change of state being described. When a solid is heated and it changes into a liquid, it is said to be	Give an example of when a material wouldn't be suitable for certain uses due to its properties.
	When a liquid cools and changes into a solid, it is said to be	
absorbent	When a liquid changes into a gas or vapour, it is said to be	
	When a gas cools and changes into a liquid, it is said to be	
twinkt	Page 1 of 3	visit twinkl.com

Year 5 Properties and Changes of Materials

of Materials	ţ	Fill in the missing word in this sentence. A	a material changes state but can change back to its original state.		I ways. Underneath each picture, write the		visit twinkl.com
erties and Changes of Materials	Revision Activity Mat	What is the scientific term given to a material that dissolves in water?			Reversible changes can be reversed in several ways. Underneath each picture, write the method that is being used.		Page 2 of 3
Year 5 Properties		Put a circle around all the materials that will dissolve in water.	coffee granules sugar pepper salt	sand jelly cubes olive oil		Give an example of an irreversible change.	twinkt

Draw a line from and a	Revision A	Revision Activity Mat
Uraw a line from each word to its meaning.	to its meaning.	When finding out which materials dissolve in a liquid, what two
	A mixture containing the particles	things could you do to make a material dissolve faster?
conductor	of another substance that won't dissolve.	1
22 22 22	A material that allows heat	
irisulator	or electricity to easily travel through it.	2.
solution	A material that does not allow	
	heat or electricity to travel	
suspension	through it.	
	A liquid containing the particles of	
	another substance dissolved in it.	Some materials can change state when they are heated or cooled.
	-	LUTAW A LINE JOM THE CHANGE OF STATE TO ELTHER THE WORD 'HEAT' OF + + + + + + + + + + + + + + + + + +
Which methods of separation	which methods of separation would be best to use when separating	
the jouowing things:		solid to liquid
a) large particles from small particles	ıll particles	heat
		liquid to solid
h) notice and notice that we have		cooling
b) solia particles from liguia	Id	liquid to gas
twinkt	Page	Page 3 of 3 visit twinkl.com

Year 5 Properties and Changes of Materials

Materials Properties and Definition Answers

Put the correct definitions with the property words in this table.

magnetic	Is attracted to magnets.			
reflective	Will bounce light off its surface.			
absorbent	Is able to soak up liquid easily.			
permeable	Will allow liquids and gasses to pass through it.			
translucent	Will let some light pass through them but not enough to see detailed shapes.			
flexible	flexible Easy to bend.			
hard	Solid, firm and rigid, not easily broken, scratched or pierced.			
flammable	Will easily catch fire and burn quickly.			
insulating Will stop energy such as electricity or heat from transferring throu				
transparent	Light passes through easily and objects are seen clearly.			





and Changes of Materials ivity Mat - Answers	ame of the Explain why the properties of these lescription. materials make them suitable for their uses.		hey can be Into Alferent shapes. A copper saucepan: Copper conducts heat so it allows food to cook. It can be shaped into a saucepan shape but it is also hard so it will keep this shape.	e name of ed. nges into a nges into a no a solid, nto a solid, or vapour, to a liquid, to a liquid,	
		Liquids are materials that take the shape of their container. They can flow or be poured. Solids are materials that keep their shape	unless force is applied to them. They can be hard, soft or squishy. Gases are materials that do not have a fixed shape but do have a fixed mass.	Complete the sentences with the name of the change of state being described. When a solid is heated and it changes into a liquid, it is said to be melting . When a liquid cools and changes into a solid, it is said to be freezing . When a liquid changes into a gas or vapour, it is said to be evaporating . When a gas cools and changes into a liquid, it is said to be evaporating .	
Year 5 Properties Revision Ac	Match the state of matter to the picture that shows how the particles behave.	solid	liquid	Write the meaning of these properties of materials. permeable – A material that allows liquids or gases to pass through it. absorbent – A material that soaks up liquid easily.	



Page 1 of 3

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and Changes of Materials ivity Mat - Answers	Fill in the missing word in this sentence. A reversible change is when a material changes state but can change back to its original state.	Reversible changes can be reversed in several ways. Underneath each picture, write the method that is being used.		ng evaporating	visit twinkl.com
i Properties and Changes of Mat Revision Activity Mat - Answers	What is the scientific term given to a material that dissolves in water? soluble	an be reversed in several J used.		filtering	Page 2 of 3
السلد	t What is the scientific ter that dissolves in water? soluble	Reversible changes can be method that is being used.		sieving	β
Year 5 Properties Revision Act	Put a circle around all the materials that will dissolve in water. coffee granules granules sugar sugar pepper sugar sugar pepper sugar sugar pepper sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sug sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sug sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar sugar		Give an example of an irreversible change. Any answers that show an irreversible change. Examples include burning wood or mixing vinegar and milk.		twink

