PHASE 4

Hampton Vale Primary Academy

Curiosity Confidence Courage Constancy

YEAR 6 HOMEWORK

ANSWERS – PACK 6

Whilst school is closed, we have planned and designed a variety of tasks for the Year 6 children to complete. The tasks are designed to be follow the learning that would have been happening in school, as closely as possible. In addition, we also expect all pupils to read daily, as well as use TT Rockstars and Spelling Shed to practise their times tables facts and spellings.

Please see answers to each task set for
MATHEMATICS
on the following pages.

If feedback or assistance is needed on specific tasks, please don't hesitate to contact the Year 6 team via Mrs Fogarty-Slack
sfogarty-slack@hvp.org.uk

PHASE 4

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five

Sets of five arithmetic questions – aim to answer each set in under five minutes!

Set A

A. 87 ÷ 100 =	B. 5 x 6 x 5 =
C. 86.49 − 17.9 =	D. $\frac{1}{5} + \frac{4}{15} =$
E. 3,842 ÷ 5 =	

A. 87 ÷ 100 = 0.87 (M)	B. 5 x 6 x 5 = 150 (M)
C. 86.49 − 17.9 = 68.59 (W)	D. $\frac{1}{5} + \frac{4}{15} = \frac{7}{15}$ (M)
E. 3,842 ÷ 5 = 768 r 2 or 768 $\frac{2}{5}$ or 768.4 (W)	

PHASE 4

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five

Sets of five arithmetic questions – aim to answer each set in under five minutes!

Set B

A. $\frac{2}{9} + \frac{1}{3} =$	B. $3 \times 0 \times 9 =$
C. $76.4 - 16.53 =$	D. $76.39 - 13.2 =$
E. $8,473 + 12,987 =$	

A. $\frac{2}{9} + \frac{1}{3} = \frac{5}{9}$ (M)	B. $3 \times 0 \times 9 = 0$ (M)
C. $76.4 - 16.53 = 59.87$ (W)	D. $76.39 - 13.2 = 63.19$ (M)
E. $8,473 + 12,987 = 21,460$ (W)	

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five

Sets of five arithmetic questions – aim to answer each set in under five minutes!

Set C

A. $800 - 290 =$	B. $437 \times 5 =$

C. $6.394 - 2.13 =$	D. $\frac{2}{7} + \frac{3}{14} =$

E. $87,832 - 12,839 =$

A. $800 - 290 =$ 510 *(M)*	B. $437 \times 5 =$ 2,185 *(W)*

C. $6.394 - 2.13 = 4.264$ *(M)*	D. $\frac{2}{7} + \frac{3}{14} = \frac{7}{14}$ or $\frac{1}{2}$ *(M)*

E. $87,832 - 12,839 = 74,993$ *(W)*

d)

6   15   27   64

Award 1 mark for 2 correct answers.
Award 2 marks for 4 correct answers.

cube

start →

not cube

even → 64

not even → 27

even → 6

not even → 15
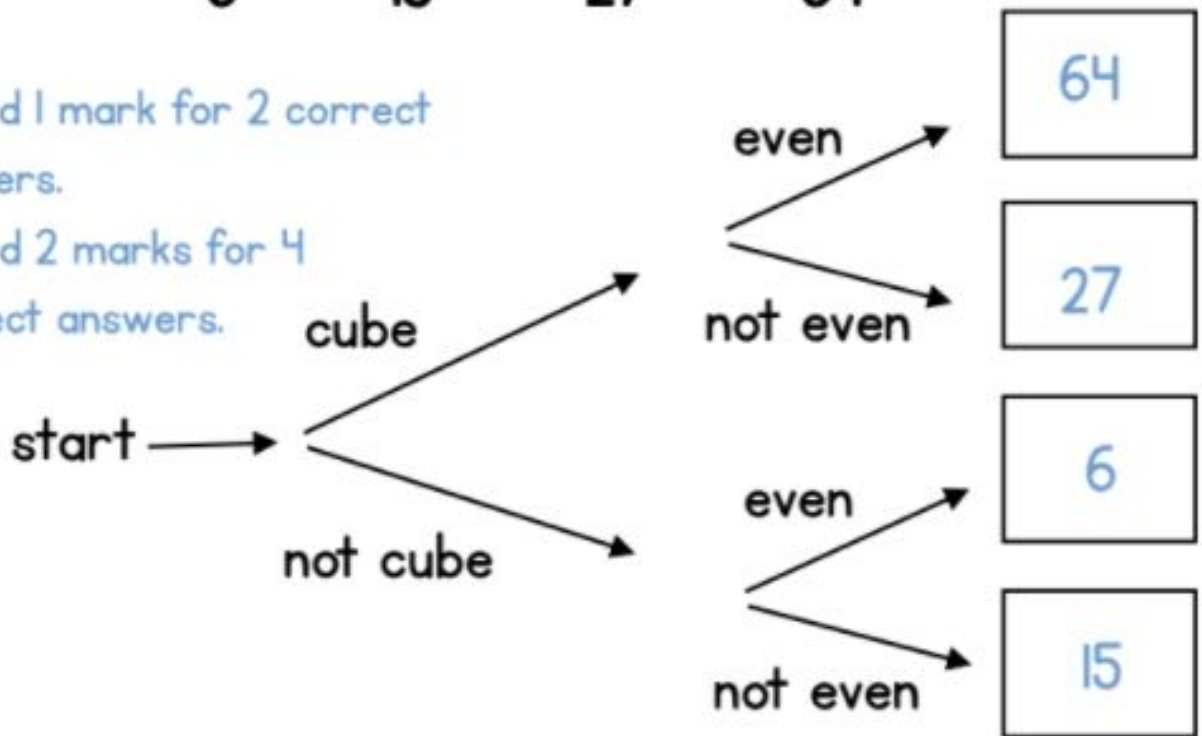
YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

2 Write one number less than 50 in each box.

	Multiple of 6	Not a multiple of 6
Square number	36	1, 4, 9, 16, 25, 49
Not a square number	6, 12, 18, 24, 30, 42, 48	2, 3, 5, 7, 8, 10, 11, 13, 14, 15...

3

Write a digit in each box to complete the number sentence.

$$\boxed{1}\boxed{1} - 7 = \boxed{4}$$

2-digit prime number · 1-digit square number

Award 1 mark for 1 correct number.

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

4

Write down the coordinates of point A.

(4 , 6)

Plot the points B and C on the grid.

B (2, 1)   C (6, 1)
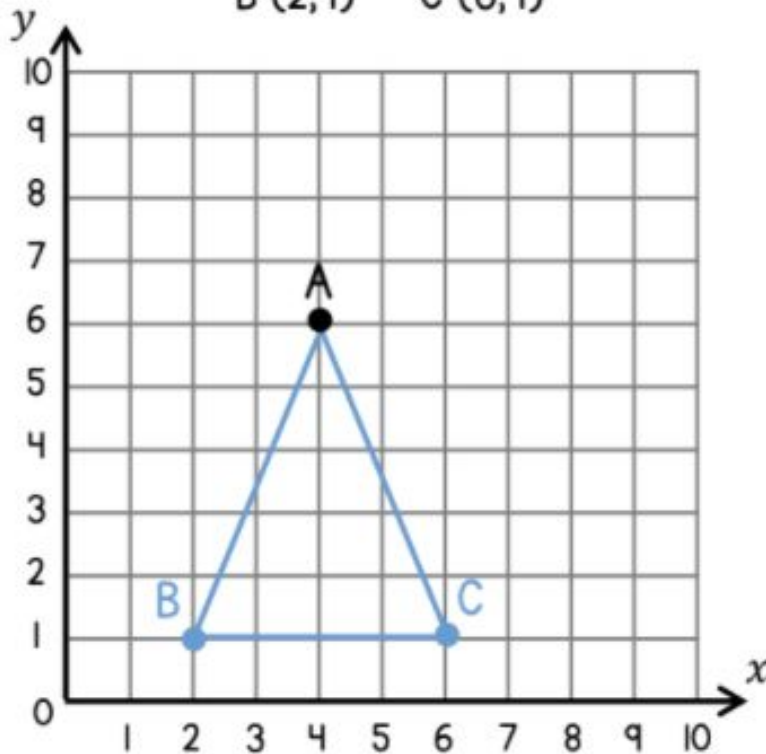
Join up the 3 points to make a triangle.

What type of triangle have you drawn?

Isosceles

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

5) Here is part of a number sequence.

The sequence increases by 50 each time.

6,250	6,300	A	B	C	D	E	F	G

Which box will have the first number greater than 6,500?

E

6

What is the **smallest** digit that can be used to make this statement correct?

$$34,3\underline{6}8 > 34,359$$

Hampton Vale Primary Academy

Curiosity Confidence Courage Constancy

YEAR 6 HOMEWORK - MATHS SKILL

Skill practise: 2D shapes

Regional Venn diagram with circles labelled **Regular**, **Quadrilateral**, and **Has a right angle**.

- Circle
- Kite
- Trapezium
- Parallelogram
- Square
- Rectangle
- Pentagon
- Others
- Right-angled triangle

Shape examples:
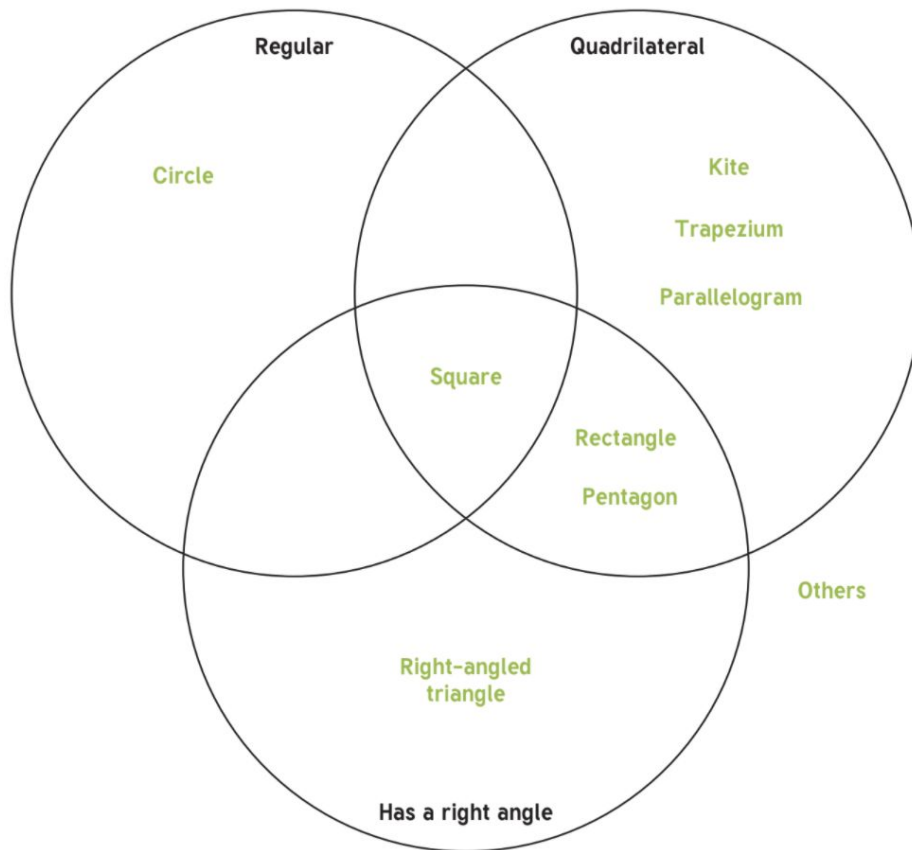
- Isosceles triangle
- Rectangle
- Square
- Parallelogram
- Circle
- Right-angled triangle
- Pentagon
- Kite
- Trapezium
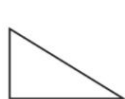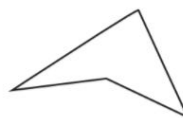
YEAR 6 HOMEWORK - MATHS SKILL

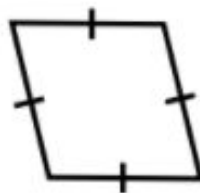## Skill practise: 2D shapes

For each shape, state whether it is regular or irregular.

60°

60°   60°
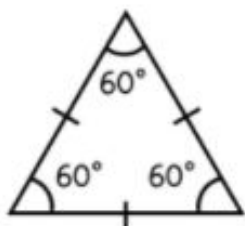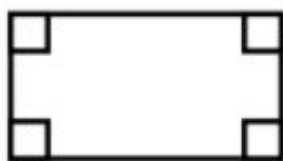
regular

irregular

regular

regular

What is the mean perimeter of the shapes below?

15cm + 20cm +
25cm = 60cm
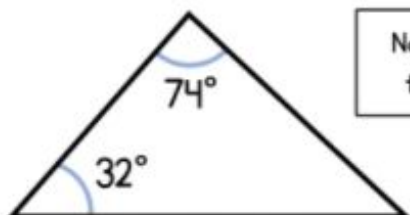60cm ÷ 3 = 20cm

5 cm   5 cm   5 cm

Calculate the missing angle in the triangle.

74°

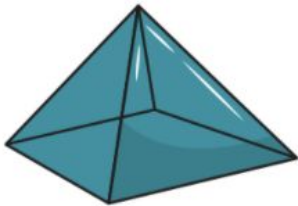Not drawn
to scale.

32°

74 °

What type of triangle is this?
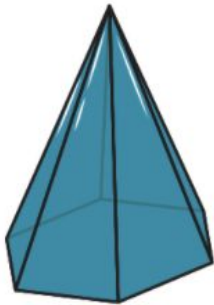
scalene

YEAR 6 HOMEWORK - MATHS SKILL

Skill practise: 3D shape
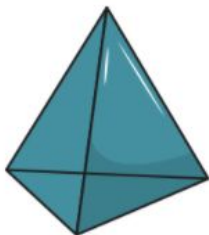
Name the pyramids and prisms.

Pyramids

Prisms

Square-based pyramid

Cuboid or rectangular prism

Hexagonal-based pyramid
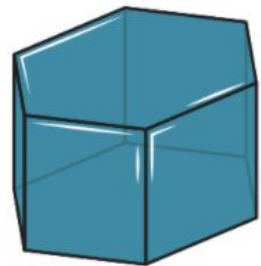
Hexagonal prism

Triangular-based pyramid
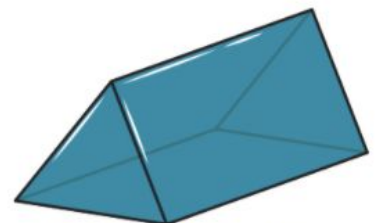
Triangular prism

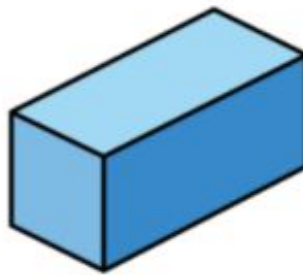## YEAR 6 HOMEWORK - MATHS SKILL

Skill practise: 3D shape

Complete the sentences.

A cuboid has ___6___ faces.

A cuboid has ___12___ edges.

A cuboid has ___8___ vertices.

Volume = l x w x d
12cm x 2cm x 2xm
= 48cm³

Calculate the volume of the cuboid.

2 cm

2 cm

12 cm
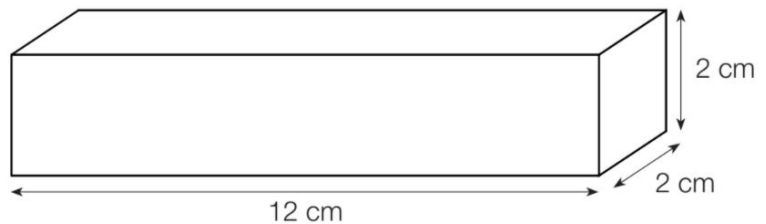
Match the 3D shapes to their net.

PHASE 4
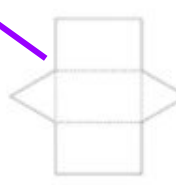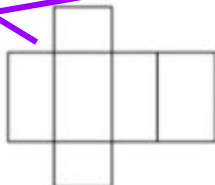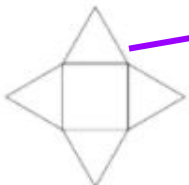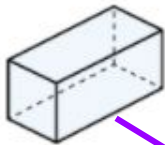
YEAR 6 HOMEWORK - MATHS CHALLENGE

Apply:
Work out the value of each shape.

⬤	★	★	▮	**35**
▮	⬤	★	⬤	**36**
★	⬤	⬤	★	**34**
27	**26**	**25**	**27**	

⬤ = 9   ▮ = 10   ★ = 8

YEAR 6 HOMEWORK - MATHS CHALLENGE

Sunscreen Statistics

1. After applying sunscreen, you should wait 20 minutes before going outside. How many seconds is this?
2. Most sunscreens don't go out of date for approximately 2 years. How many months is this?
3. Waterproof sunscreens lose some of their effectiveness after 40 minutes in the water. What fraction of an hour is this?
4. 80% of people don't apply sunscreen before going outside. In an office with 60 workers, how many would not apply sunscreen before going outside?

Brainteaser!

A sunscreen's Sun Protection Factor (SPF) number refers to the factor by which it enhances a person's natural sun protection. If someone normally burns in 20 minutes, then a sunscreen with an SPF of 15 would protect them for 300 minutes (SPF 15 x 20 minutes = 300 minutes).

If a person normally burns in 15 minutes, how long would a sunscreen with an SPF of 30 protect them for? Give your answer in hours and minutes.

1. 20 x 60 = 1200 seconds
2. 2 x 12 = 24 months
3. $\frac{40}{60} = \frac{2}{3}$ of an hour
4. 80% of 60 = 48 people
5. 15 x 30 = 450 minutes = 7 hours 30 minutes

PHASE 4

YEAR 6 HOMEWORK - MATHS CHALLENGE

1.	If a=7, b=5, then $a + a + b$ = ?	19	T
2.	If $x + 5 = 12$, then x = ?	7	H
3.	If $4y + 2 = 26$, then y = ?	6	E
4.	I think of a number, subtract 12, and get 20. Write this as an equation.	$x - 12 = 20$	Y
5.	If c=3, d=7, then cd = ?	21	C
6.	If $5 + 2y = 19$, then y = ?	7	H
7.	If g=2, h=5 and j=4, then $gh - j$ = ?	6	E
8.	How can you write b x b differently?	b^2	W
9.	If $3x - 5 = 13$, then x = ?	6	E
10.	How can you write $a + b + a + b$ differently?	$2a + 2b$	X
11.	I eat 6 sweets and there are 7 left in the packet. Write this as an equation.	$x - 6 = 7$	P
12.	If p=12, then $p \div 2$ = ?	6	E
13.	If a=15, then $a \div 3 + 6$ = ?	11	R
14.	I think of a number (y), multiply it by 3 and add 6. Write this as an equation.	$3y + 6$	I
15.	5 is 4 more than x. Write this as an equation.	$x + 4 = 5$	M
16.	How can you write $y + y + y + 6$ differently?	$3y + 6$	I
17.	If $d = 10$, then $2d \div 4$ = ?	5	N
18.	If $2b = 38$, then b = ?	19	T
19.	If $5t + 3 = 23$, then t = ?	4	S

What do scientists use to freshen their breath?

They chew experi-mints.

YEAR 6 HOMEWORK

ANSWERS – PACK 6

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Please see answers to each task set for
WRITING
on the following pages.

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PHASE 4

YEAR 6 HOMEWORK - SPELLINGS

Spell Fix!

1. Another word for 'make'

2. A banana & apple are types of...?

3. A number of people or things

4. This pumps blood around your body

5. When you say you'll do something you make a ...

6. New. Not very long ago.

7. Word that means 'despite the fact that'

8. Go in at one end and out the other ...

1. Build
2. Fruit
3. Group
4. Heart
5. Promise
6. Recent
7. Though
8. Through

I_3 N_1 O_4 C_1 B_1 P_2 H_5 A_1 U_5

M_1 S_1 G_3 E_4 F_1 D_1 L_1 R_6 T_5

This is taken from 'Spell Fix' – a spelling app – whereby you must make each of the 8 common exception words, using only the letters given (you can repeat the letters as many times as the small number beside each letter says!).

PHASE 4

YEAR 6 HOMEWORK - Writing

Skill: Formality

1. Which sentence is the most formal? Underline one.

a) We're having an Easter party, please come!
b) Jessica and Robert request your presence at their Easter party.
c) Would you like to come to my Easter party?
d) I wish you would come to my Easter party.

2. Which sentence is the most formal? Underline one.

a) Please come and meet us for an interview.
b) You've got yourself an interview, well done!
c) We request that you attend an interview.
d) You can come to an interview if you like.

3. Which sentence is the most formal? Underline one.

a) Your services are required on 4th November.
b) Can you help me on 4th November?
c) I need your assistance on 4th November.
d) Can you lend a hand on 4th November?

4. Which sentence is the most formal? Underline one.

a) Mrs Brown needs you in her office, now!
b) Mrs Brown has asked for you to go to her office.
c) We immediately request that you go to Mrs Brown's office.
d) You need to go to Mrs Brown's office, quick!

5. Which sentence is the most formal? Underline one.

a) Shall we go out for dinner this evening?
b) Your presence is requested at dinner this evening.
c) You have been asked to go for dinner tonight.
d) Are you going out for dinner tonight?

PHASE 4

Hampton Vale
Primary Academy

YEAR 6 HOMEWORK

ANSWERS – PACK 6

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READING/PLACE & TIME
on the following pages.

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YEAR 6 HOMEWORK - Reading

1. What is the Statue of Liberty's official name?
Liberty Enlightening the World

2. Which word from the text means the same as "can be found in this place?"
located

3. Do you think that it is easy to reach the top of the statue? Explain your answer.
Answers will vary. Possible answer: No, it would be hard to climb 354 steep steps

4. Find and copy a phrase which tells us that the statue is visited regularly.
Each day lots of tourists explore the museum.

YEAR 6 HOMEWORK - Reading

1. List three things that Duke and Jerry have seen.
   Accept any three of the following:
   the Land of Lincoln, the Will Rogers
   Memorial, Cadillac Ranch, Tinkertown.

2. Which word from the text means 'something that is well known'?
   Accept the answer 'famous' only.

3. What do you think that Duke is filling the car up with?
   Accept the answers relating to fuel, petrol or gas only.

4. Would you like to travel on Route 66? Explain your answer.
   Accept either yes or no provided that a relevant explanation, supported by evidence from the tect, is also given.

YEAR 6 HOMEWORK - Reading

A Journey to America: Advancing Reading Skills
Clean Water Crisis Continues – **Answer Sheet**

Q1: Find and copy two words from the first paragraph of the article which show that residents are unhappy.
Accept the answers 'outrage' and 'protests' only.

Q2: What does the word emergency imply about the recruitment of the managers?
Accept any answer which infers that the recruitment was done quickly, as a matter of urgency or as a result of some sort of panic or unrest, such as: The word 'emergency' implies that the managers were recruited quickly to solve a problem.

Q3: What was Flint's original source of drinking water?
Accept the answer 'Lake Huron' only.

Q4: Explain why the local library may have made the decision to provide bottled water for its users well before the city advised them to.
Accept any answer which infers that they believed that there was a problem with the water and did not want their users to come to harm, such as: I think that they did this because the staff at the library knew that there was something wrong with the water and they wanted to protect their users.

Q5: Which word from the third paragraph means the same as **give off**?
   Tick one.

immediate ☐   cloudy ☐

emit ☑   foul ☐

Q6: Why do you think that residents were initially advised to boil their tap water?
Accept answers which refer to trying to make the water safer, such as: I think that residents were advised to boil their tap water because the city knew that it contained bacteria and boiling it might kill the bacteria and make the water safer.

Q7: Why was the situation just prior to August 2015 dangerous for residents?
Accept any answer which refers to residents still unknowingly drinking water which contained chloride and lead, such as: The situation prior to August 2015 was dangerous because residents had not been told to drink bottled water yet but their water contained harmful chemicals.

Q8: What did studies on the children of Flint find?

Accept answers referring to the statistic that the amount of lead in the children's blood had almost doubled, such as: Studies on the children of Flint found that the amount of lead present in the children's blood since Flint switched to its new water source.

Q9: Why might workers at the Flint water treatment plant not have known that the water was unsafe for residents?

Accept any answer which refers to tests showing the water as being safe when it left the treatment plant, such as: Workers might not have known that the water was unsafe for residents because tests showed that it was safe and free from lead when it left the plant.

Q10: Compare and contrast the situation in Flint before and after its water source was changed.

Accept any reasonable comparison or commentary about how the situation in Flint has changed, such as: Before the change, the water was safe to drink. After the change, the water was dangerous and residents had been exposed to a lot of lead.

Q11: With a new network of pipelines simply a pipe dream...
Explain why the author has written this phrase in this way.

Accept answers which discuss the author's intentional wordplay relating to the content of the news article, such as: The author uses 'pipe dream' because the article has been about water pipes and it has been written this way as an effective play on words.

1. playscript

2. Jack was angry with Raj for two reasons. Firstly, Jack felt that Raj had been using his spade for too long and wanted to have it back. Secondly, Jack was angry because he had been using the spade to dig up his mum's flowers.

Children may use quote from the text such as: 'You've had it for ages!', '…surrounded by dug up flowers..' and 'Mum is going to be so angry!'.

3. best friends

4. Children may mention that Jack's red face mirrored his mum's angry expression, meaning her face was red because she was angry.

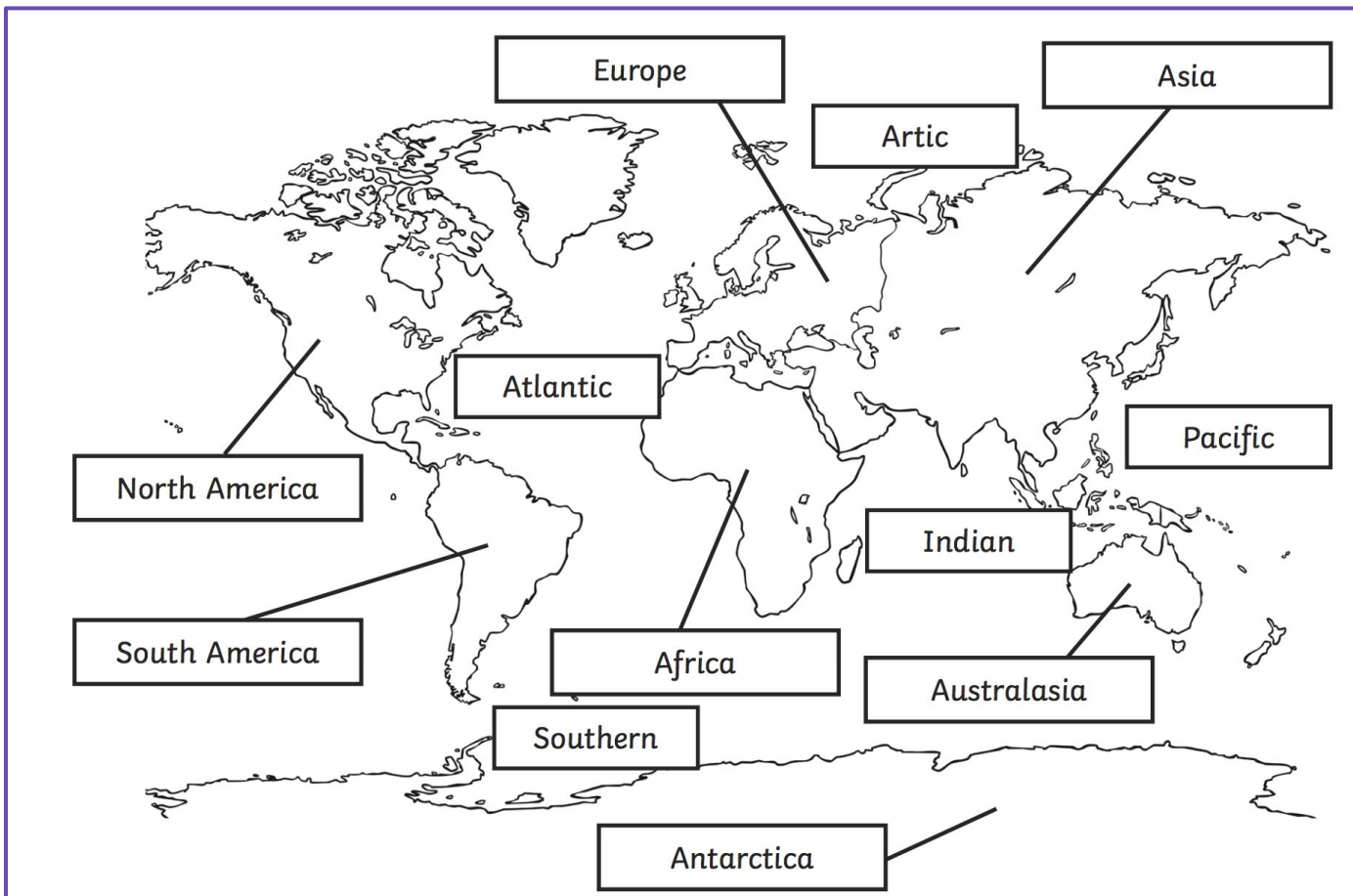5. The italics refer to the stage directions, the actions of the actors.

6. distressed

7. Children may mention that Raj said 'erm…' meaning that he was considering telling the truth but his actions of 'not holding Jack's gaze' suggests that he feels guilty. Raj also kicked off 'the remaining soil from his shoes' suggesting that he was trying to hide the evidence.

PHASE 4

YEAR 6 HOMEWORK - Place & Time

Continents and oceans of the world

Correctly label the <u>five major oceans</u> and the <u>seven continents</u> around the world.

Europe

Asia

Artic

Atlantic

Pacific

North America

Indian

South America

Africa

Australasia

Southern

Antarctica

Pacific	Antarctica	Southern	Australasia
Europe	North America	Arctic	South America
Africa	Indian	Atlantic	Asia

YEAR 6 HOMEWORK - Place & Time

Knowledge: North American lakes

A <u>physical feature</u> is a natural landmark, such as a lake or a river.

Facts about the Mississippi river:

1) How long is the Mississippi river? 2,320 miles
2) What does the name 'Mississippi' mean? 'Great River'
3) Where is the source *(the start)* of the river? Lake Itasca
4) Which dangerous creature can be found in parts of the river? alligators, dangerous fish, snakes.
5) Which major city is near to the mouth of the river? New Orleans
6) What is a 'steam paddle boat'? A boat powered by a steam engine.
7) Which water sport was invented on the river and when? Water skiing
8) What was the Morganza Spillway and how did it help during floods? A flood emergency system. This diverts flood water from the Mississippi river into a man-made basin.
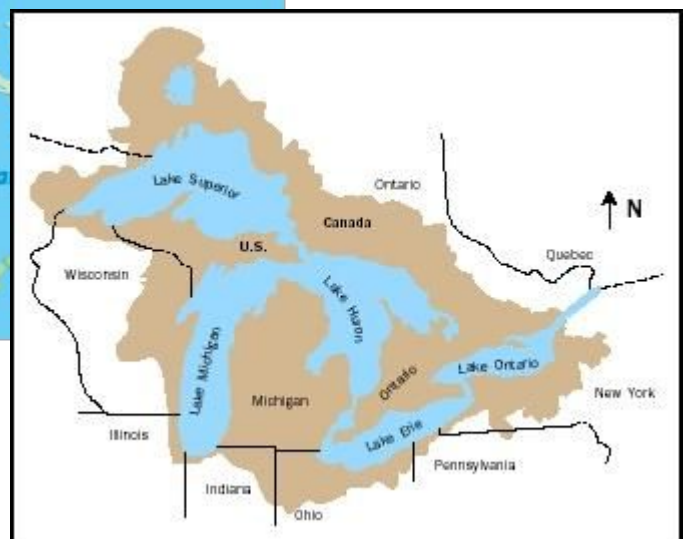
<u>Challenge!</u> How many times can you write Mississippi in 1 minute??
Let Mrs F-S know (with picture proof!) and you could be in the next home learning booklet!

YEAR 6 HOMEWORK - Place & Time

Apply: Locating North American rivers and lakes
Label the following rivers and lakes of North America on the map:

The Great Lakes	Lake Ontario
Lake Erie	Lake Superior
Lake Michigan	Lake Huron

North American rivers		
Mississippi	Rio Grande	Missouri
Colorado	Yukon	Red river