

### Home Learning Grid Year 6



### Week Commencing – 20.04.20

### Work to be completed in home learning books

	Monday	Tuesday	Wednesday	Thursday	Friday
Spelling/ Fast Maths	Fast Maths Go to kahoot.it and use code 03854237	<b>Spelling</b> Go to <u>kahoot.it</u> and use code 08336060	Fast Maths Go to <u>kahoot.it</u> and use code 01448404	<b>Spelling</b> Go to <u>kahoot.it</u> and use code 09587495	Fast Maths Go to <u>kahoot.it</u> and use code 06664309
Reading	First News See the First News article below and have a go at the questions.	Crater Lake Read pages 57-62 and answer the quick questions at kahoot.it and using code 02580401	Crater Lake Read pages 62-69 and complete the inference task below.	Crater Lake Enjoy reading chapter 6 of Crater Lake. If you must do some work, send me what you think of it so far.	First News See the First News article below and have a go at the crossword.
Writing	Crater Lake Bug-eyes Incident (Short story)  Use the example below (taken from the governments own exemplification document for Year 6 children) to write your own short story of your very own run-in with some bug-eyes at Crater Lake. Imagine that you have just seen one for the first time. What was it like?			100 Word Challenge See below (or on Seesaw activities) for the 100 Word Challenge for this week.	
Maths	Angles Complete the 'Vertically Opposite Angles' task below. Click here for video tutorials and answers (no cheating).	Angles Complete the 'Angles in a Triangle' task below. Click here for video tutorials and answers (no cheating).	Angles Complete the 'Angles in a Triangle – Special Cases' task below. Click here for video tutorials and answers (no cheating).	Angles Complete the 'Angles in a Triangle – Missing Angles' task below. Click here for video tutorials and answers (no cheating).	Challenge Can you set a new high score on Timetable Rockstars <u>here</u> or Mangahigh <u>here</u> ?
Challenge	Writing Take a look here for some ace sentence stacking lessons for you to do some creative writing.	Art Join in Rob Biddulph's live art workshop and competition at 10AM here.	Competition! Take a look at the final page of this document for an exciting competition related to the Red Arrows	Art Take a look towards the end of this pack for a limited-resources challenge.	Blog/Vlog Let the world know what you've been up to so far. Create a blog post using video or text for us to upload.

but you will need to match the correct word with each clue! These stories are from pages 7 and 8 of First News. Read the stories, and then try the puzzle. To help you, we have underlined the answers to the crossword puzzle clues in the stories –



### SCOVERY



South Pole more than 90 million years ago has EVIDENCE that a prehistoric forest existed in the been discovered by a team of researchers.

in the seabed near the South Pole and included roots, pollen once a thick, swampy forest. prehistoric times than it does now and that the area was the South Pole may have had a much warmer climate in found by a team from the UK and Germany, suggest that and plant spores in pristine condition. The fossil traces, Soil that came from a <u>Cretaceous</u>-era forest was discovered

than 2.2 million

sheets that are found in Antarctica today. what caused the area to cool so drastically, forming the ice The next part of the puzzle is for scientists to work out

The full report was published in the science journal Nature

## FOUND

found, has been unearthed in South Africa. AN ancient skull, thought to be the oldest ever

who lived more a young child have been from is believed to direct ancestor modern human's belonging to Homo erectus, The skull,



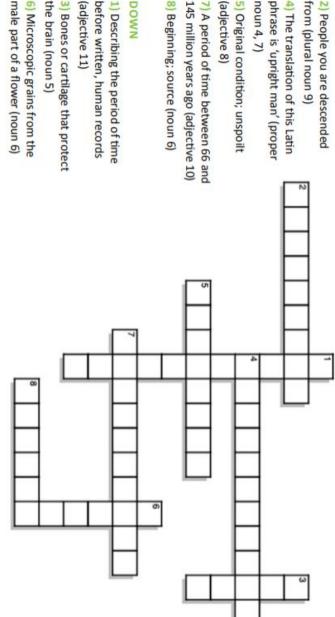
origin of everyone alive today." three-year-old was a part of could have been the how rare" the find was. "The group that this two or Professor Andy Herries said he "could not stress earlier than we previously thought. Lead researcher could mean that our ancestors lived 200,000 years pieced together the 150 skull fragments say this years ago. The team of Australian researchers who

### ACROSS

- from (plural noun 9) People you are descended
- noun 4, 7) phrase is 'upright man' (proper 4) The translation of this Latin
- (adjective 8) Original condition; unspoilt
- 145 million years ago (adjective 10) A period of time between 66 and
- 8) Beginning; source (noun 6)

### DOWN

- (adjective 11) before written, human records Describing the period of time
- the brain (noun 5) Bones or cartilage that protect
- Reading (Monday) male part of a flower (noun 6)



### Reading (Wednesday)

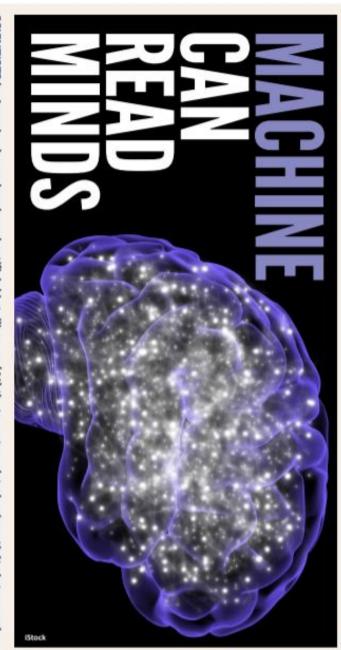
Now Lance seems to be taking action (and the rest of the gang) and has some kind of plan, take this opportunity to draw your own map of the Crater Lake activity centre. Use all the information you have read so far (even if you have read more of the book like me) to draw your own map with labels for different areas. Why not be creative and add footprints to show the paths of different characters over time?

News Puzzle ®

but you will need to match the correct word with each clue! This story is from page 9 of First News. Read the story, and then try the puzzle. To help you, we have underlined the answers to the crossword puzzle clues in the story itself –

SCIENCE NEWS





# SCIENTISTS in America have developed artificial intelligence (AI) that can translate brain activity into words

measure what goes on inside the brain. electrode arrays implanted in their brains. These devices Four volunteers at the University of California had

The participants had to read 50 sentences aloud several

system that decoded those numbers into words. list of numbers. This was then fed into another part of the Al times, while scientists monitored their brain activity. The data was inserted into an Al system that turned it into a

The results were impressive, but not perfect. One sentence

needed correcting. accuracy, for one participant, only 3% of translated sentences but the AI translated it as "The spinach was a famous singer read aloud was "Those musicians harmonise marvellously," Overall, though, scientists were very happy with the AI's

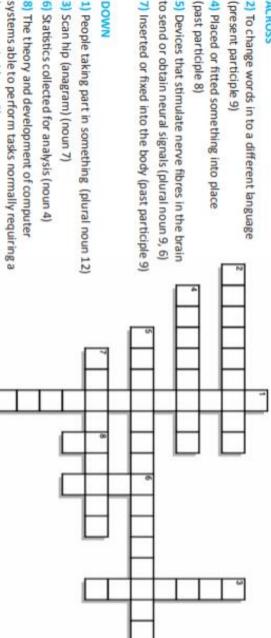
It can't quite translate random sentences yet. And without being read any time soon! mplanted electrode arrays, there's no risk of your mind The AI was only working with 50 set sentences, though

- (present participle 9) To change words in to a different language
- Devices that stimulate nerve fibres in the brain (past participle 8) 4) Placed or fitted something into place
- Inserted or fixed into the body (past participle 9)

- People taking part in something (plural noun 12)
- Scan hip (anagram) (noun 7)
- Statistics collected for analysis (noun 4)

Reading (Friday)

human mind (noun 2) systems able to perform tasks normally requiring a 8) The theory and development of computer



### Writing (Monday-Thursday)

Model texts

### Opening the Fridge

Slawly, Ewan peeped through the crack in his door. All was black. He took a step out. He could hear distant snoring as he created across the landing. As his heart raced he stared into the darkness; he could hear the fridge urging him on-willing him to more. Now the stairs. The tricky bit.

Suddenly a THUD!... He raced down the creating stairs-even the seventh one that makes an earsplitting creak noise. He could see the rewhite rectangle straight ahead of him. Then he eponed its. He took a given glance and saw the chocolate digestives. Then she he could feel pair of eyes watching her in the darkness. Who was it? Had he been seen him?

Hy His eyes darted around the room, his heart in his mouth. He grabbed the biscutte and ran for its.

"Ewan!" echoed a voice.

### Sneaking Downstairs

I lay under the covers, staring at the ceiling, my storacin empty. Slowly I get out of bed and crept towards my door. The handle shimmiered in the darkness, unging me to turn it. My hand quivered as the brass handle turned and made a click. I jumped. Shadows crept across the landing while I nibbled at my nail. My parents rooms door creaked and I botted down the stairs-including the seventh one that makes an earsplitting thud when you step on it. I stared at the human-eating fridge and my legs turned to jelly as I tiptood towards it.

I reached out and ...

### Writing (Friday)

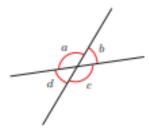
Welcome to our third 100 Word Challenge - a writing competition. You can write whatever you want, inspired by the picture below. You must write no more than 100 words so treat every word like it is gold. Upload whatever writing you do, either a photo or submitted as a Seesaw note, and a winner will be chosen at the end of the school day on Friday. You could write a description, a story, a newspaper article (or part of) or anything you would like at all. Have fun.



### Maths (Monday)

### Vertically opposite angles





a Estimate the sizes of the angles.



Explain why.









b) What is the total of angles a and b?

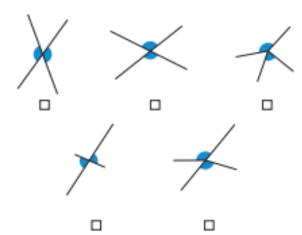




Do any other pairs of angles have this same total?

- c) Angles a and c are vertically opposite angles. What do you notice about the sizes of angles a and e?
- d) Angles b and d are also vertically opposite angles. What do you notice about the sizes of angles b and d?
- e) Complete the sentence. Vertically opposite angles ...

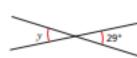
Tick the pairs of angles that are vertically opposite.



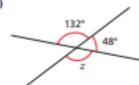
Compare answers with a partner.



Work out the sizes of the unknown angles. Give reasons for your answers.

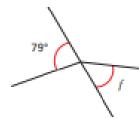


because .



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Annie is working out the size of angle f.



Angle f is equal to 79° because vertically opposite angles are equal.

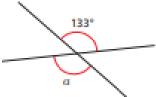


Do you agree with Annie? \_\_\_\_\_

Explain your answer.

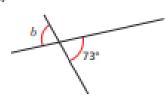
Work out the unknown angles.

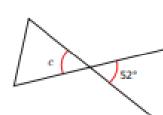
**a**)



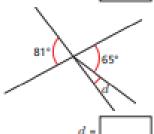


b)

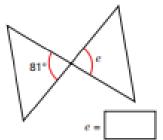




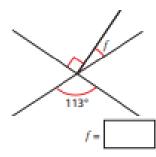




**e**)



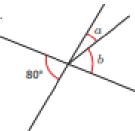
f)



Talk about your reasons with a partner.



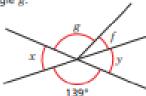
Angle b is three times the size of angle a.



Work out the sizes of angles a and b.

Angle f is one quarter of the size of angle g.

Angle f is 28°.

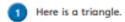


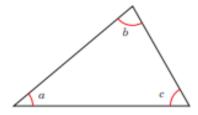
Are angles x and y vertically opposite? \_\_\_\_\_ Explain your answer.

### Maths (Tuesday)

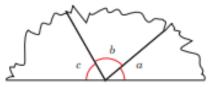


### Angles in a triangle





a) The three vertices are torn off the triangle and arranged on a straight line.



What is the sum of the three angles? How do you know?



b) Now estimate the sizes of angles a, b and c in the triangle.



b =

c) What is the total of angles a, b and c?

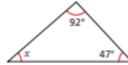
d)	Comp	olete	the	sem	tence

Angles in a triangle \_\_\_

2 Work out the sizes of the unknown angles.

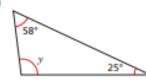
Give reasons for your answers.

a)



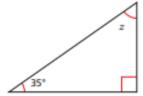
= because \_\_\_\_

b)



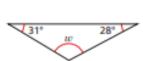
y = because \_\_\_\_

c)



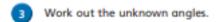
z = because \_\_\_\_

d)

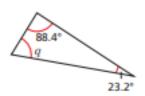


w = because \_\_\_\_

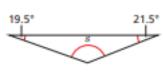
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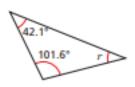
a)



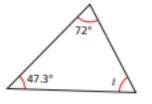
c)



b)



d)



r =

t =

Discuss your reasons with a partner.



a) Two angles in a triangle are 42° and 57°.

What is the size of the third angle?



b) Two of the angles in a triangle are 12°.

What is the size of the third angle?



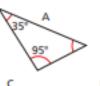
c) One of the angles in a triangle is 38°. Another angle is twice the size of the first angle.

What is the size of the third angle?



3

Sort the triangles into the table.





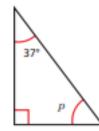






0 acute angles	1 acute angle	2 acute angles	3 acute angles

Are any of the columns empty? Why?



 $p = 143^{\circ}$  because angles in a triangle sum to  $180^{\circ}$ and 180 - 37 = 143



Do you agree with Ron? \_\_\_\_\_

Explain your answer.

### Maths (Wednesday)

### White Rose Maths

### Angles in a triangle – special cases





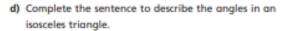
a) What type of triangle is it?

How do you know?





c) What do you notice?



In an isosceles triangle \_\_



Identify and label the angles that will be equal in each triangle.









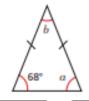






Work out the sizes of the unknown angles.

a)



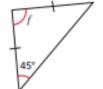


a = b =



b)





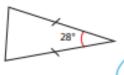
c = | d =



Talk about your reasons with a partner.



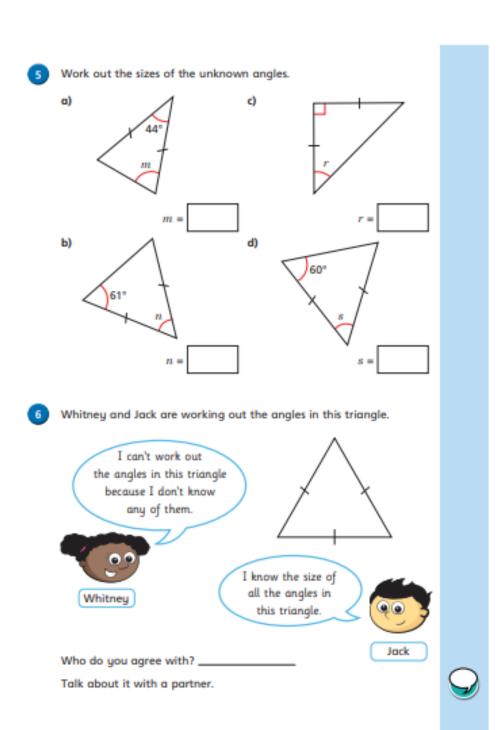
Dexter is working out the unknown angles in triangles.



I can't work out either of the missing angles because I don't have enough information.



Do you agree with Dexter? \_\_\_\_\_ Explain your answer.



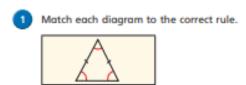
	Are the statements true or false?	
	a) Every isosceles triangle is equilateral.	
	b) Every equilateral triangle is isosceles.	
	c) A right-angled triangle can be equilateral.	
	d) A right-angled triangle can be isosceles.	
	Explain your answers to a partner.	9
9	Two angles in a triangle are 43° and 74°.	
	Is the triangle isosceles?	
	Show your workings.	
	One angle in an isosceles triangle is 29°.	
	What could the other angles be? Give two possible answers.	
0	Angle $b$ is twice the size of angle $a$ .	$\bigcirc$
	Work out the size of angle $c$ .	
	Σ. Δ	



### Maths (Thursday)

### White Rose Maths

### Angles in a triangle – missing angles



Angles on a straight line sum to 180°



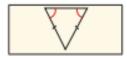
Angles around a point sum to 360°



Angles in a triangle sum to 180°



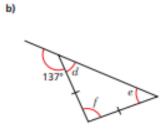
In an isosceles triangle, two angles are equal



Vertically opposite angles are equal

2 Work out the si	1203 01	the un	KIIUWII	angles.
Give reasons fo	r each	stage (	of your	working.

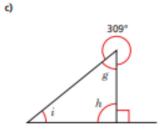
71°



d = because \_\_\_\_

because,

f=	because	
	'	

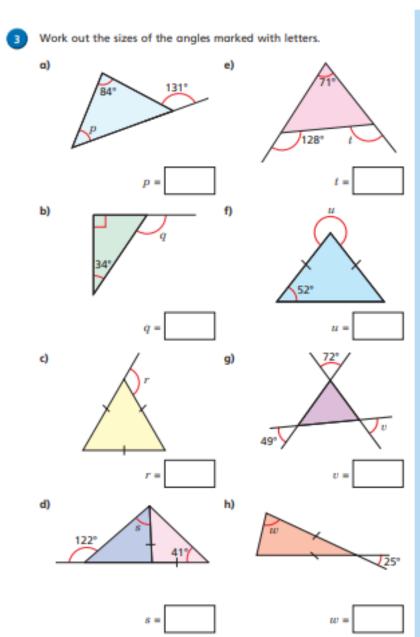


g =		because	
-----	--	---------	--

h =	because	

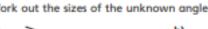
i = because
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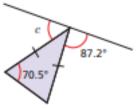
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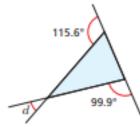


Talk about your reasons with a partner.



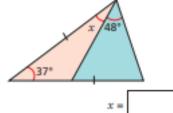






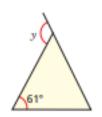


Work out the size of angle x.





Here is an isosceles triangle. Find two possible sizes of angle y.









### **Other Fun Stuff**

Why not have a go at some art work based around the limited resources you have around the home? Take a look at these examples and show us what you come up with.



### Competition

You may have seen this competition announced on Look North on 15.04.20. It is being hosted by a charity called Aerobility and involves you creating your own aircraft at home, sending in photos or video footage when you are finished. The prize is an actual flight in a Red Arrow Hawk – something money can't buy. Click the image below to find out more.

