

Year 6 Nova Home Learning- Term 6 Week 3 and 4

Day	Writing Task	Maths Task	Line of Enquiry Task																														
1	<p>LO: to edit for correct spelling</p> <p><u>Activity 1 Correct the ten spelling mistakes and rewrite correctly in your neatest handwriting:</u></p> <p>I would love to bild my own house of the fewcher. It would be built on an ieland and would have a large enclozhuh for my miniacher ponies. The building would be made of wood with a smooth texchuh while the furnichure would be made with woven weat and hay bales. There would be solar panels and a temprature control for every room so I never get too hot or too cold! Each room would be painted in carm colours to help me relax.</p> <p>Draw your 'house of the future'.</p> <p>Login to spelling shed and practise Y5/6 word list for 20 minutes. <b>Password has changed to: Nova2020</b></p>	<p><b>LO: to calculate area</b></p> <p><b>Starter:</b></p> <ol style="list-style-type: none"> <li>1) Dexter is 5 feet 3 inches tall. How tall is Dexter in inches?</li> <li>2) How many km is the same as 12,600 m?</li> <li>3) If <math>n = 17</math>, work out the value of <math>3n - 1</math></li> <li>4) What is the second cube number?</li> </ol> <p><b>Watch the clip at:</b>  <a href="https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zwqt6fr">https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zwqt6fr</a>  <b>ZOOM IN TO VIEW THE WORKSHEETS:</b></p>	<p>LO: to locate countries and their capital cities.</p> <p>Research capital cities. Add more to the list. Find out which each city is in. what is the time there now compared to the UK?</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>France -</td><td><u>P</u> _____</td></tr> <tr><td>Germany -</td><td>_____</td></tr> <tr><td>Spain -</td><td><u>M</u> _____</td></tr> <tr><td>Italy -</td><td>_____</td></tr> <tr><td>Portugal -</td><td><u>L</u> _____</td></tr> <tr><td>Sweden -</td><td><u>S</u> _____</td></tr> <tr><td>Norway -</td><td><u>O</u> _____</td></tr> <tr><td>Finland -</td><td>_____</td></tr> <tr><td>Hungary -</td><td><u>B</u> _____</td></tr> <tr><td>Ireland -</td><td><u>D</u> _____</td></tr> <tr><td>Iceland -</td><td><u>R</u> _____</td></tr> <tr><td>Poland -</td><td>_____</td></tr> <tr><td>Czech Republic -</td><td><u>P</u> _____</td></tr> <tr><td>Latvia -</td><td>_____</td></tr> <tr><td>Belarus -</td><td>_____</td></tr> </table>	France -	<u>P</u> _____	Germany -	_____	Spain -	<u>M</u> _____	Italy -	_____	Portugal -	<u>L</u> _____	Sweden -	<u>S</u> _____	Norway -	<u>O</u> _____	Finland -	_____	Hungary -	<u>B</u> _____	Ireland -	<u>D</u> _____	Iceland -	<u>R</u> _____	Poland -	_____	Czech Republic -	<u>P</u> _____	Latvia -	_____	Belarus -	_____
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Czech Republic -	<u>P</u> _____																																
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Belarus -	_____																																

1 Use the diagram to help you complete the sentences.

The length of the rectangle is  cm.  
 The width of the rectangle is  cm.  
 The total number of squares in the rectangle is   
 The area of the rectangle is  cm<sup>2</sup>

2 Work out the areas of the shapes. Each square represents 1 cm<sup>2</sup>

a) b) c)

What do you notice?

3 Which shapes have an area of 24 cm<sup>2</sup>? Each square represents 1 cm<sup>2</sup>

4 a) Draw two different rectangles that have an area of 8 cm<sup>2</sup>.  
 Label the side lengths of your rectangles.  
 b) Write the factors of 8  
 What do you notice? Talk about it with a partner.

5 Draw two different rectilinear shapes that have an area of 12 cm<sup>2</sup>.  
 Compare shapes with a partner.

6 Rosie is finding the area of this shape.

To find the area of the shape, you can multiply 3 by 8, so the area must be 24 cm<sup>2</sup>

Do you agree with Rosie?  
 Explain your answer.

7 Here is a rectangle.

a) Work out the area of the rectangle.  
 b) Draw a different rectilinear shape that has the same area.  
 Compare answers with a partner.

8 It is impossible to have a rectilinear shape with an even area if all its sides are odd numbers.

Investigate Dexter's statement to see if it is true.  
 Compare your findings with a partner.

Activate  
Go to Set

2

LO: to review Y6 SPAG

a The ground was lit up by the hovering spaceship.

Is this sentence active or passive?

b Can you think of a more formal synonym to replace this adjective?

guttled →

c Read the sentence below and underline the two words modal verbs:

The new restaurant, The Pizza Palace, will be opening at the weekend, and my family and I may go for a meal there.

d Insert a colon in the correct place in the sentence below to separate the two independent clauses.

The golfer dropped to his knees in celebration he had finally won a major tournament.

e Mr Whoops has got in a muddle with his commas. Could you help him to add two missing commas to this sentence?

During my magic show I accidentally dropped my top hat which revealed the hidden playing cards to the audience.

f Change these nouns/adjectives into verbs by adding the suffixes -ise, -ify, -ate or -en.

dark →   
 glory →

LO: to calculate area and perimeter of rectangles

Starter:

- 1) If a rectangle has area 16 cm<sup>2</sup>, what could the side lengths of the rectangle be?
- 2) How many cm are there in 3.7 m?
- 3) Solve the equation  $47 = y - 5$
- 4) Work out  $\frac{7}{8}$  of 64

Go to :

<https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zsr4k7h>

ZOOM IN TO VIEW THE WORKSHEETS:

LO: to locate European countries and their capital cities.



Open the European countries map in the Y6 folder.

Work through each question – harder questions area the end.

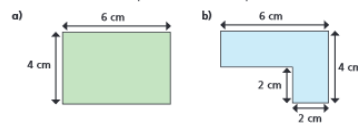
1 Use the words to complete the sentences.

- perimeter    cm<sup>2</sup>    cm    m  
 area    m<sup>2</sup>    inside    around

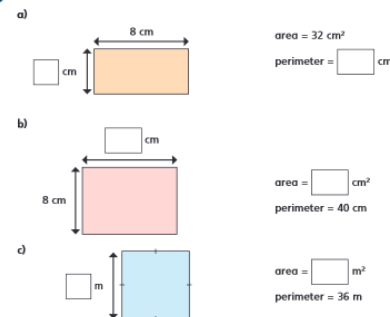
\_\_\_\_\_ is the amount of space \_\_\_\_\_ a two-dimensional shape. It can be measured in units such as \_\_\_\_\_ or \_\_\_\_\_

\_\_\_\_\_ is the distance \_\_\_\_\_ a two-dimensional shape. It can be measured in units such as \_\_\_\_\_ or \_\_\_\_\_

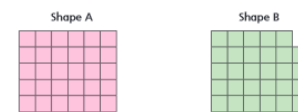
2 Work out the areas and perimeters of the shapes.



3 Work out the missing values.



4 Work out the areas and perimeters of the shapes.



What do you notice?

3

LO: to review Y6 SPAG

Tick the box that shows where a dash should appear in this sentence.

Fold the paper wallet

template into four

quarters be careful not to rip

the paper.

Do these words need to end in -ibly or -ably?

sens \_\_\_\_\_

comfort \_\_\_\_\_

reli \_\_\_\_\_

Underline one preposition in each sentence:

"Go and buy me some carrots from the shop, please?" asked Grandma politely.

In the pool, the talented swimmer practised her front crawl.

occurs    placed    varied

Replace the appropriate words in the text with synonyms from the list above. One is done for you.

Freezing happens when a liquid is made very cold and becomes a solid. When water is put into a freezer, it will become ice. Different elements and compounds have different freezing points.

\_\_\_\_\_ mixture \_\_\_\_\_ combination \_\_\_\_\_

Are the underlined words a noun phrase, a prepositional phrase or a subordinate clause?

Although he felt ill, the magician still performed his show.

Mr Whoops has been juggling with the letters from one of his Y6 spelling words. Can you spot what it is?

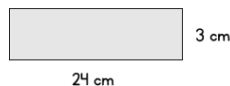
t o m t e i c c m

\_\_\_\_\_ e \_\_\_\_\_

LO: to calculate the area of a triangle

Starter:

1) Find the area of the rectangle.



2) How many kilograms is the same as 7,800 g?

3) Write  $\frac{11}{25}$  as a percentage.

4) Divide 16 by 1,000

Watch the clip at:

<https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zsqxfcw>

REMEMBER:

Area of a triangle

To calculate the area of a triangle, multiply the height by the width (this is also known as the 'base') then divide by 2.  
 Find the area of a triangle where height = 5 cm and width = 8 cm.

$$5 \times 8 = 40 \div 2 = 20$$

The area is 20cm<sup>2</sup>.

Science: solids and liquids

You will need a few M&Ms

GO to the website below to try the amazing floating M&M experiment. Find out why it happens and write a short scientific report what you did and saw.

<https://www.youtube.com/watch?v=1Odr5QFgcVw>

also try:

<https://www.youtube.com/watch?v=E8uEmZyy88M>

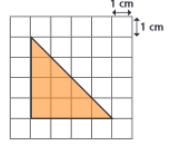
**ZOOM IN TO VIEW THE WORKSHEETS:**

1 Complete the sentences to describe the triangle.

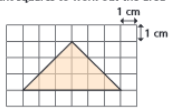
The triangle has  full squares.

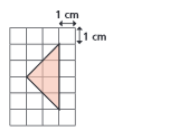
The triangle has  half squares.

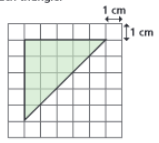
The area of the triangle is  cm<sup>2</sup>

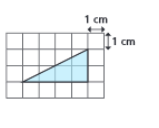


2 Count squares to work out the area of each triangle.

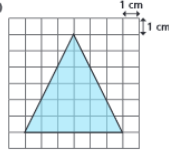
a) 

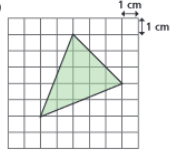
b) 

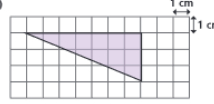
c) 

d) 

3 Count squares to estimate the area of each triangle.

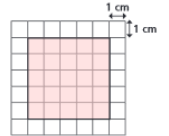
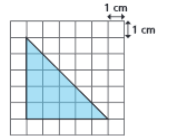
a) 

c) 

b) 

Why are your answers estimates?

4 a) Work out the areas of the shapes by counting squares.

b) What do you notice about your answers to part a)? Explore this using other rectangles.

c) Write your findings.

4

LO: to describe a setting

Read/Listen to the first 3 chapters of 'The Hobbit' here:  
<http://esl-bits.net/ESL.English.Learning.Audiobooks/The.Hobbit/preview.html>

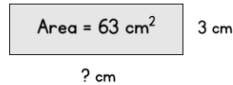
Have a go at these writing and illustration activities.

- Describe the Hobbit Hole in your own words- inside and outside. Illustrate it.
- Draw some of the characters using the descriptions of them in the text.

**LO: to calculate the area of a triangle**

**Starter:**

1) Work out the length of the missing side.



2) How many millimetres are there in half a metre?

3) If  $x = 7$ , work out the value of  $20 - 2x$

4) What is the 6 worth in the number 4.216?

**ZOOM IN TO VIEW THE WORKSHEETS:**

LO: to use coding to make an animation

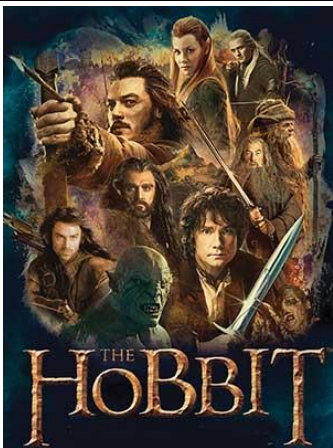
**Go to**

<https://scratch.mit.edu/ideas>

**Try to animate your name or create a chase game.**



Imagine a World



**Area of a triangle (2)**

White Rose Maths

1 Divide each rectangle into two right-angled triangles. The first one has been done for you.

2 a) Calculate the area of the rectangle and the triangle.

area =  cm<sup>2</sup>      area =  cm<sup>2</sup>

b) Explain how you worked out the area of the right-angled triangle.

3 Calculate the areas of the right-angled triangles.

triangle A =  cm<sup>2</sup>      triangle C =  cm<sup>2</sup>  
 triangle B =  cm<sup>2</sup>

4 Whitney is calculating the area of the triangle using the formula.

Area =  $\frac{1}{2} \times \text{base} \times \text{perpendicular height}$

The area is  $\frac{1}{2} \times 4 \times 3$ .  
 You can ignore the 5 because it isn't the base or the perpendicular height.

Do you agree with Whitney? \_\_\_\_\_  
 Talk about it with a partner.

© White Rose Maths 2019

5 LO: to write in role as a Hobbit

Refresh/Listen to the first 3 chapters of 'The Hobbit' here:  
<http://esl-bits.net/ESL.English.Learning.Audiobooks/The.Hobbit/preview.html>

Write some short diary entries as if you are Bilbo for chapters 1-3. Illustrate them.

**LO: to calculate the area of a triangle**

**Starter:**

1) Find the perimeter of the rectangle.



2) Roughly how many cm is the same as one inch?

3) Solve the equation  $3a + 8 = 29$

4) Work out  $37 \times 28$

**ZOOM IN TO VIEW THE WORKSHEETS:**

**LO: to learn how to make a mini-book to present information**

Next week you will be designing and making presentations about 'Water'.

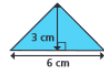
Read this website info and have a go at making a mini – book.

<https://www.bl.uk/childrens-books/activities/make-a-miniature-book>

### Area of a triangle (3)

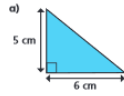
White Rose Maths

- 1 Calculate the area of the triangle.

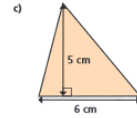


area =  cm<sup>2</sup>

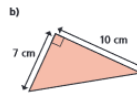
- 2 Calculate the area of the triangles.



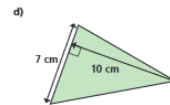
area =  cm<sup>2</sup>



area =  cm<sup>2</sup>

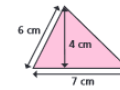


area =  cm<sup>2</sup>



area =  cm<sup>2</sup>

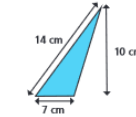
- 3 What mistake has Dora made?



To find the area you do  $7 \times 6 \div 2 = 21$  cm<sup>2</sup>



- 4 Label the base of each triangle *b*.  
Label the perpendicular height *h*.



- 5 Are the statements always, sometimes or never true?

The side at the bottom of a triangle is the base.

The perpendicular height is equal to the vertical height.



Day

**Writing Task**

Please remember to practise your spellings. You can use your Spelling Shed Log in. *Continue to work your way through your Grammar and Punctuation Homework Workbook as well as the tasks below.*

**Maths Task**

Please play Time Table Rockstars to practise your fluency!  
*Continue to work your way through your Maths Homework Workbook as well as the tasks below.*

**Line of Enquiry Task**

1

LO: to write a free verse poem about bees and illustrate it. Your poem verses could be set out like this (or you choose):



2 adjectives

1 adjective + 1 noun

2 verbs

3 adverbs

Eg if you were writing a poem about a cat:

Slinky, soft

Ginger cat

Pouncing, purring

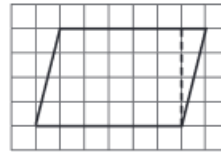
Frantically, fiercely and fast!

LO: To find the area of a parallelogram  
Watch first. Can you figure out what is happening?  
[https://www.youtube.com/watch?time\\_continue=16&v=PVIKHNDsJpc&feature=emb\\_title](https://www.youtube.com/watch?time_continue=16&v=PVIKHNDsJpc&feature=emb_title)

**ZOOM IN TO VIEW THE WORKSHEETS:**

**Area of a parallelogram**

1 On a piece of squared paper, copy this parallelogram and cut it out.



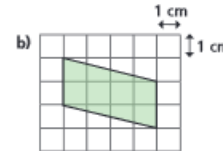
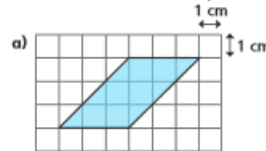
a) Create a rectangle by cutting off the right-angled triangle and moving it.

b) Complete the sentences.

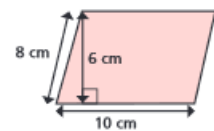
The area of the rectangle is  squares.

The area of the parallelogram is  squares.

2 Calculate the areas of the parallelograms.



3 Huan is finding the area of the parallelogram.



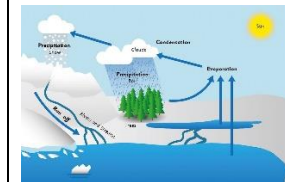
$10 \times 8 = 80 \text{ cm}^2$

a) What mistake has Huan made?

b) What is the correct answer?

LO: describe and understand key aspects of human geography, including water

Your task over the next three days is to put together a brilliant 'All about water' presentation or booklet:



Go to:

<https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/z3wpp39>

Listen and read carefully. Your task is to make a drawing of the water cycle and label it carefully.

Add this to your 'All About Water' presentation – see tomorrow's tasks.



2

LO: to use hyperbole, similes and metaphors  
GO to:

<https://www.bbc.co.uk/bitesize/articles/zhcc92p>

Read and listen to the clips and text carefully. Then:  
Can you write five sentences that include either:

- hyperbole
- a simile
- a metaphor



LO: To calculate the volume of a cube or cuboid

### Volume

**Volume is the amount of space a 3D shape takes up.**

**A cubic cm block takes up 1 cubic cm. This is written as 1 cm<sup>3</sup>.**

**You can work out the volume of a shape by multiplying height x width x depth.**

**If the shape is made of cubic cm blocks, you can count the cubes to find the shape's volume.**

**Watch first:**

<https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zcrxtyc>

<https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/z3jrxfr>

**ZOOM IN TO VIEW THE WORKSHEETS:**

**Volume of a cuboid**

1 Here is a cuboid made up of cubes.

a) What is the volume of the cuboid?  
volume =  cm<sup>3</sup>

b) Explain your method for finding the volume.

c) What is the volume of this cuboid?

volume =  cm<sup>3</sup>

d) What is the same and what is different about the cuboids?

2 Find the volume of the cuboids.  
You can make them with cubes if it helps.

a)

volume =  cm<sup>3</sup>

b)

volume =  cm<sup>3</sup>

3 Calculate the volumes of the cuboids.

a)

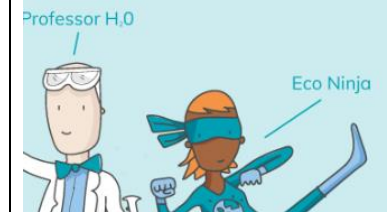
volume =  cm<sup>3</sup>

b)

volume =  cm<sup>3</sup>

LO: describe and understand key aspects of human geography, including water

**Go to the Bristol Water website below and work through each activity.**



[https://www.bristolwater.co.uk/wp-content/uploads/2020/05/A\\_World\\_of\\_Water.pdf](https://www.bristolwater.co.uk/wp-content/uploads/2020/05/A_World_of_Water.pdf)

Start by making notes from each file on the website as below:

- Worksheet downloads
- [A World of Water worksheet](#)
  - [Cloud Busting worksheet](#)
  - [Save Water worksheet](#)
  - [Water Cycle worksheet](#)

3

LO: to use semi-colons and colons  
GO to:

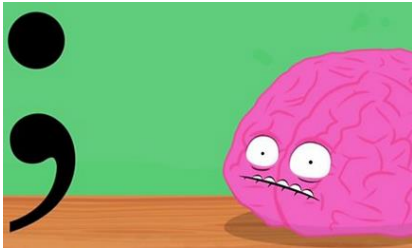
<https://www.bbc.co.uk/bitesize/articles/zdtny9q>

Read and listen to the clips and text carefully. Then:

LO: To calculate the volume of a cube or cuboid



Complete the matching activity and the quiz. There is also a worksheet to view and complete.



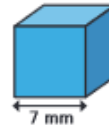
4 Calculate the volumes of the cubes.

a)



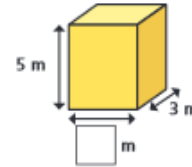
volume =  cm<sup>3</sup>

b)

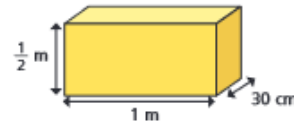


volume =  mm<sup>3</sup>

5 The volume of the cuboid is 60 m<sup>3</sup>  
Find the missing length.

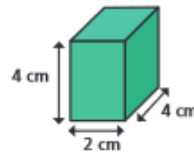


6 Calculate the volume of the cuboid.

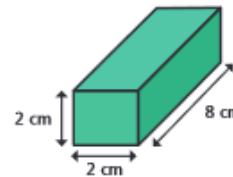


volume =  cm<sup>3</sup>

7 a) Calculate the volumes of the two cuboids.



cm<sup>3</sup>



cm<sup>3</sup>

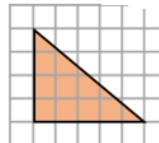
What do you notice?

4 LO: to review your learning of subordinating conjunctions  
Go to:  
<https://www.bbc.co.uk/bitesize/articles/zrmdqp3>  
And complete the activities after watching the clips.

LO: Year 6 learning review

LO: to research and write a mini-booklet report or fact file about how clouds are formed.  
SC:  
Title  
Subheadings  
Technical words (you could make a glossary too)  
Clear facts  
Fun fact boxes  
Diagrams

1) Find the area of the triangle.

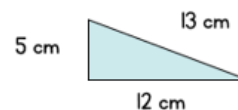


2) A square has side lengths of 15 cm.  
What is the perimeter of the square?

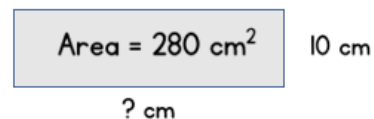
3) Work out 20% of 160

4) Subtract 6.4 from 38

1) Work out the area of the triangle.



2) What is the length of the missing side?



3) Solve the equation  $10x = 82$

4) Work out  $\frac{5}{6} - \frac{3}{8}$



Some starting points for you:  
[https://www.ducksters.com/science/earth\\_science/clouds.php](https://www.ducksters.com/science/earth_science/clouds.php)  
 Video:  
<https://www.sciencekids.co.nz/videos/weather/clouds.html>

The basic science:  
 A **cloud** is made up of liquid water droplets. A **cloud** forms when air is heated by the sun. As it rises, it slowly cools it reaches the saturation point and water condenses, forming a **cloud**. As long as the **cloud** and the air that it's made of is warmer than the outside air around it, it floats!

5 LO: to review your understanding of synonyms and antonyms.

**Why are antonyms and synonyms useful?**

**Antonyms** and **synonyms** are especially useful for story writing (narrative) as they help a writer to:

- Describe and explain in a way that creates a clear image in the reader's mind.

LO: Year 6 learning review

**LO; to create a piece of artwork inspired by 'water'.**

**Use any material you have – pencils, crayons, fabrics, recycled materials, magazines, comics ...**

**Some inspiration:**

- Avoid repetition so your writing doesn't become boring.

Go to:

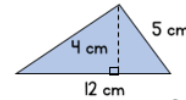
<https://www.bbc.co.uk/bitesize/articles/z6g48xs>

And complete the activities. Watch the video clips and complete the quiz.

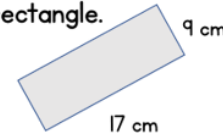
Fill in the gaps

synonym or  ✓?

- 1) Work out the area of the triangle.



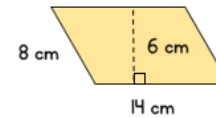
- 2) Calculate the perimeter of the rectangle.



- 3) If  $a = 13$ , work out the value of  $3a + 1$

- 4) Add together 9,526 and 3,675

- 1) Calculate the area of the parallelogram.



- 2) A square has area  $81 \text{ cm}^2$ .  
How long are the sides of the square?

- 3) Solve the equation  $10 = b - 10$

- 4) Work out  $3\frac{3}{4} \times 5$

