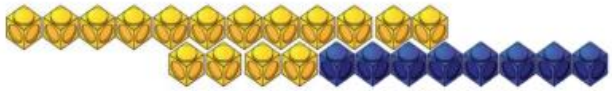
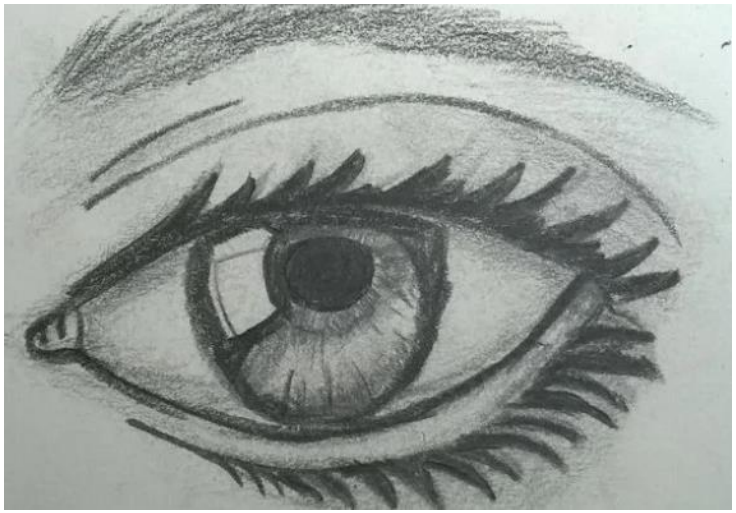
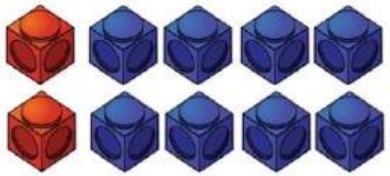
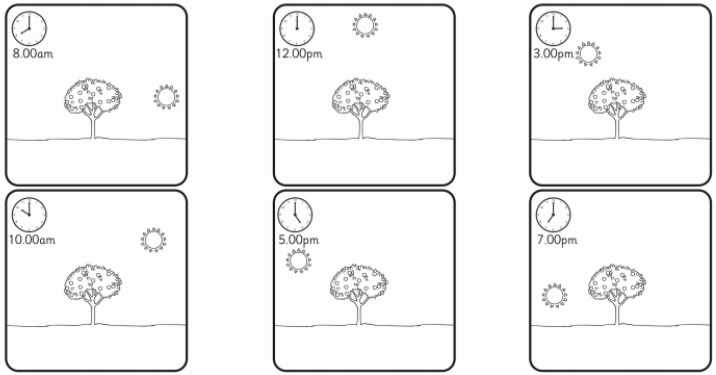
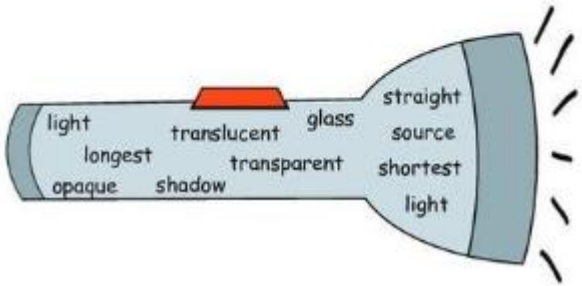
Year 6 Nova Home Learning- Term 6 Week 1 and 2 (Monday 1st June- Friday 12th June)			
Day	**Writing Task** Please remember to practise your spellings. You can use your Spelling Shed Log in. ***Continue to work your way through your Grammar and Punctuation Homework Workbook as well as the tasks below.***	**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	<u>LO: To use simile in descriptions</u> <u>Dragon world</u> This was their favourite time of day to fly. As the glowing, crimson sun dipped down below the vast horizon, retreating to allow night to take its place, the dragons took flight. The sky looked beautiful: wisps of pillow-like clouds seemed to part in front of them as they flexed their powerful wings. Like sails from ancient ships, the wings beat in the dying embers of the sun's fire, embracing what little warmth remained. Thousands of tiny scales that covered the beasts' bodies glistened like rubies in the dazzling light. **A simile is a way of describing something by comparing it to something else, often using the**	<u>LO: To use the language of ratio</u> https://whiterosemaths.com/homelearning/ *Follow the link, click on the Year 6 tab. Scroll down to Week 1 on the pink tabs, click on the + sign and watch the video for Lesson 1 'Using ratio language'* Complete the sentences. For every two blue flowers there are ___ pink flowers. For every blue flower there are ____ pink flowers. Use cubes to help you complete the sentences.  For every ___ , there are ___ For every 8 , there are ___ For every 1 , there are ___ How many "For every..." sentences can you write to describe these counters? 	<u>ART LO: To use sketching and shading techniques</u> Use your sketching and shading skills to draw an eye in detail. Here is a link for a step by step guide if you need it. https://www.instructables.com/id/How-to-Draw-a-Realistic-Eye-in-6-Steps/ 

	word "like" or "as." Can you find the similes in the writing above? Choose to continue the story set in Dragon world <u>or</u> record 8 sentences of your own that use similes to describe dragons.		
2	<u>LO: Words containing the letter string 'ough'</u> **Sort the words into different groups depending on the sound that the 'ough' letter string makes. You need to work out how many groups you need.** plough bought rough cough dough fought bough through ought enough although borough brought tough thorough bough nought	<u>LO: To use the language of ratio (problem solving)</u> *Re - watch Day 1's video if needed.* True or False?  • For every red cube there are 8 blue cubes. • For every 4 blue cubes there is 1 red cube. • For every 3 red cubes there would be 12 blue cubes. • For every 16 cubes, 4 would be red and 12 would be blue. • For every 20 cubes, 4 would be red and 16 would be blue.	<u>PE Challenge</u> **How many of each one can you do in 60 seconds?**

		Whitney lays tiles in the following pattern If she has 16 red tiles and 20 yellow tiles remaining, can she continue her pattern without there being any tiles left over?	
3	<u>LO: To use noun phrases</u> <u>Then and now</u> Wherever we go in our lives, someone has been there before us. It's sometimes hard to imagine. Echoes of the past are all around us. **A noun phrase builds a description using adjectives with the noun. E.g. The smart, elderly man wore a tall, black hat.** Choose one of the characters in the picture, either from the past or the present. Can you tell their story? Make sure you build in noun phrases.	<u>LO: To understand the link between ratio and fractions</u> https://whiterosemaths.com/homelearning/ *Follow the link, click on the Year 6 tab. Scroll down to Week 1 on the pink tabs, click on the + sign and watch the video for Lesson 2 'Ratio and fractions'* The ratio of red counters to blue counters is 1 : 2 What fraction of the counters is blue? $\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{3}$ What fraction of the counters is red? $\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{3}$ This bar model shows the ratio 2 : 3 : 4 What fraction of the bar is pink? What fraction of the bar is yellow? What fraction of the bar is blue? One third of the sweets in a box are mints. The rest are chocolates. What is the ratio of mints to chocolates in the box?	<u>Science LO: To understand how shadows are formed</u> Watch the clip to remind you how shadows are made. Then draw the diagrams in your book and show where you think the shadow will be. https://www.bbc.co.uk/bitesize/clips/z8vfb9q Look at the position of the sun in each picture and draw the shadow of the tree. 

4	LO: To understand idioms **Idioms are traditional sayings that are still part of the English language.** What is the meaning of these idioms? 1) I've got a bone to pick with you 2) Don't let the cat out of the bag 3) Sitting on the fence 4) Blowing your own trumpet 5) Turn over a new leaf 6) Don't make a mountain out of a molehill 7) It's time to face the music 8) It's raining cats and dogs	**LO: To understand the link between ratio and fractions (problem solving)** *Re - watch Day 3's video if needed.* There are some red and green cubes in a bag. $\frac{2}{5}$ of the cubes are red. **True or False?** • For every 2 red cubes there are 5 green cubes. • For every 2 red cubes there are 3 green cubes. • For every 3 green cubes there are 2 red cubes. • For every 3 green cubes there are 5 red cubes. Ron plants flowers in a flower bed. For every 2 red roses he plants 5 white roses. He says, $\frac{2}{5}$ of the roses are red. Is Ron correct?	Science **LO: To use scientific vocabulary to explain how shadows are formed.** Complete the sentences in your book. Light and Shadow Light travels in _____ lines from a _____ of light that bounces off an object. We can see the object because the _____ enters our eyes. Wood and cardboard are _____ materials that light cannot travel through. _____ is a _____ material which allows light to pass through. Tissue paper is _____ which will let some light through. When an object blocks out the _____, a _____ is formed. Shadows are _____ at midday and _____ at the beginning and end of the day. 

5	<u>LO: Words ending in –cial or –tial</u> **Turn these words into adjectives by adding the correct ending** *Office - **official*** *Sequence* *Benefit* *Substance* *Providence* *Society* *Influence* *Prejudice* *Face* *Residence* *Sacrifice* *Initiate* *Justice* *Influence* *Confidence*	<u>LO: To use the symbol for ratio</u> https://whiterosemaths.com/homelearning/ *Follow the link, click on the Year 6 tab. Scroll down to Week 1 on the pink tabs, click on the + sign and watch the video for Lesson 3 'Introducing the ratio symbol'* The ratio of red counters to blue counters is ☐ : ☐ The ratio of blue counters to red counters is ☐ : ☐ Write down the ratio of: • Bananas to strawberries • Blackberries to strawberries • Strawberries to bananas to blackberries • Blackberries to strawberries to bananas The ratio of red to green marbles is 3 : 7 Draw an image to represent the marbles. What fraction of the marbles are red? What fraction of the marbles are green?	**Design & Technology** **<u>LO: to design a product and suggest improvements</u>** Upcycling! Choose an item within the house that you do not use anymore - this could be an old item of clothing, accessory or household item. Your task is to upcycle it to make a new item that you will use! Evaluate the product and identify any areas that you could improve if they were to make it again.

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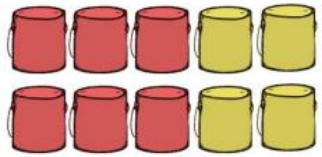
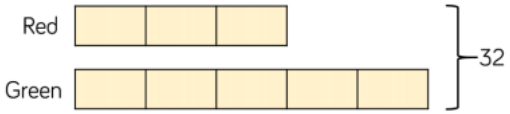
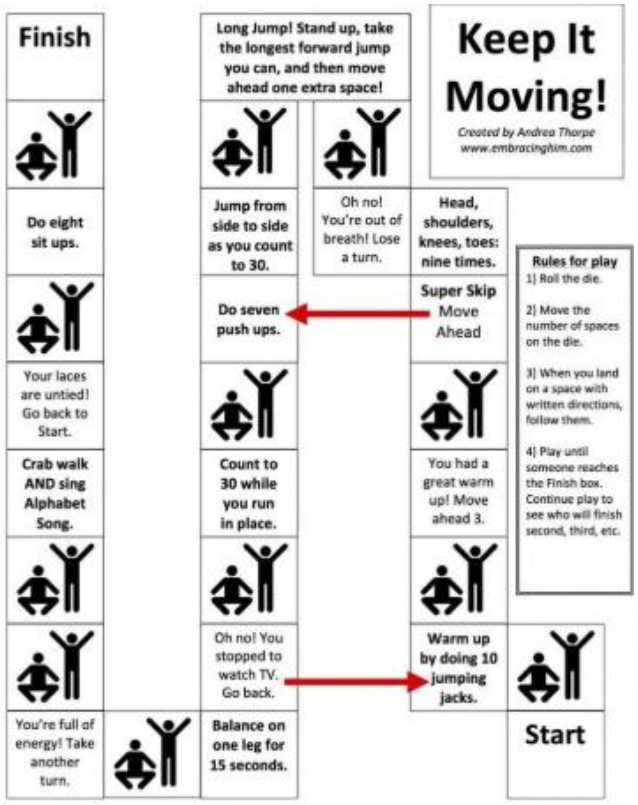
1		<u>LO: To use the symbol for ratio</u> *Re - watch Day 5's video from last week if needed* Tick the correct statements.  • There are two yellow tins for every three red tins. • There are two red tins for every three yellow tins. • The ratio of red tins to yellow tins is 2 : 3 • The ratio of yellow tins to red tins is 2 : 3	<u>ART</u> **https://www.tate.org.uk/kids** *There are some great activities on this website as well as different artists to find out about.* *Follow the link and choose an activity or research an artist that interests you.* Two really good activities are: Make Pop Art like Warhol Make marbled paper with foam (A messy one! Sorry parents and carers!)

		In a box there are some red, blue and green pens. The ratio of red pens to green pens is 3 : 5 For every 1 red pen there are two blue pens. Write down the ratio of red pens to blue pens to green pens.	
2	LO:	LO: To calculate ratio https://whiterosemaths.com/homelearning/ *Follow the link, click on the Year 6 tab. Scroll down to Week 1 on the pink tabs, click on the + sign and watch the video for Lesson 4 'Calculating ratio'*	PE Challenge Here's a PE board game to keep you active!

		A farmer plants some crops in a field. For every 4 carrots he plants 2 leeks. He plants 48 carrots in total. How many leeks did he plant? How many vegetables did he plant in total? Jack mixes 2 parts of red paint with 3 parts blue paint to make purple paint. If he uses 12 parts blue paint, how many parts red paint does he use? Eva has a packet of sweets. For every 3 red sweets there are 5 green sweets. If there are 32 sweets in the packet in total, how many of each colour are there? You can use a bar model to help you. 	
3	LO: To	LO: To calculate ratio (problem solving) *Re-watch Day 2's video if needed*	Science LO: To investigate how moving a light source changes the size of a shadow You will need: A light source (torch is best) A solid object A flat surface to project the shadow on (wall!) Ruler/tape measure

Teddy has two packets of sweets.

In the first packet, for every one strawberry sweet there are two orange sweets.

In the second packet, for every three orange sweets there are two strawberry sweets.

Each packet contains 15 sweets in total.

Which packet has more strawberry sweets and by how many?

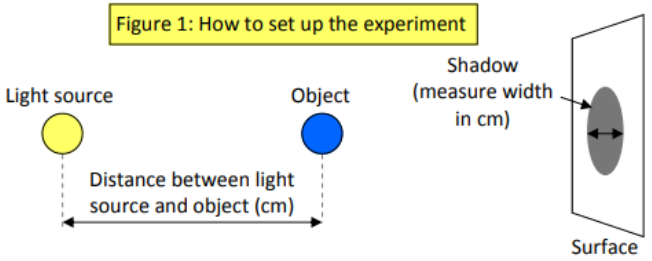
Annie is making some necklaces to sell.
For every one pink bead, she uses three purple beads.

Each necklace has 32 beads in total.

The cost of the string is £2.80
The cost of a pink bead is 72p.
The cost of a purple bead is 65p.

How much does it cost to make one necklace?

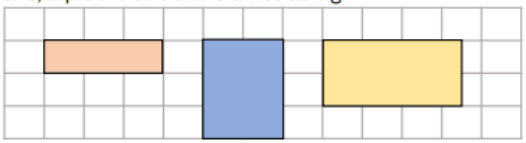
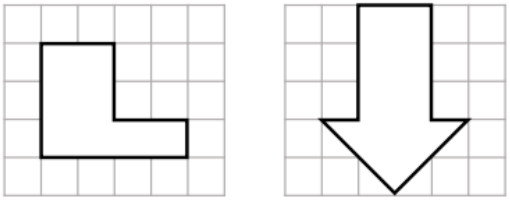
Figure 1: How to set up the experiment

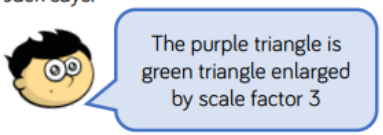
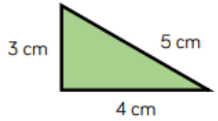
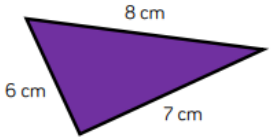
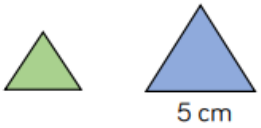


Set up the investigation as shown in the diagram. Measure how far the light source is from the object. Measure the width of the shadow at its widest point. Record this information in the table. Move the light source further away from the object. Record this new distance. Predict and measure the width of the shadow. Repeat until you have 6 measurements.

Table showing the width of shadow cast by an object

	Width of shadow at its widest point (cm)	
Distance between light source and object (cm)	Prediction	Measurement

4	LO: To	**LO: To use scale factors** https://whiterosemaths.com/homelearning/ *Follow the link, click on the Year 6 tab. Scroll down to Week 1 on the pink tabs, click on the + sign and watch the video for Lesson 5 'Using scale factors'* Copy these rectangles onto squared paper then draw them double the size, triple the size and 5 times as big.  Copy these shapes onto squared paper then draw them twice as big and three times as big.  Enlarge these shapes by: • Scale factor 2 • Scale factor 3 • Scale factor 4 	**Science LO: To investigate how moving a light source changes the size of a shadow** Look at your results table from yesterday's investigation and write up what you found out using the questions as a guide: *What happens to the size of the shadow when you move the light source away from the object?* *What happens to the size of the shadow when you move the light source towards the object?* *Can you explain why this happens?*
5	LO:	**LO: To use scale factors (problem solving)** *Re-watch Day 4's video if needed*	**French** 1. Become familiar with the French words for the fingers https://www.youtube.com/watch?v=ucOkATnCnck 2. Watch the video presentation on the school website

		Jack says:    Do you agree? Explain why. Here are two equilateral triangles. The blue triangle is three times larger than the green triangle.  (Not drawn to scale) Find the perimeter of both triangles.	3. Illustrate each of your words with a funny picture. 1. Oui ! 2. Non ! 3. C'est Cardiff? 4. C'est Édimbourg ? 5. C'est Londres ? 6. C'est Belfast ? 7. C'est Paris?