Hello Year 5. Here are some learning activities for you to try at home. Remember to send us your photographs for our class padlet. Stay home, stay safe and have fun with your learning! Mrs Waters, Mrs Ferreira and Mrs Hudson x Topic Fairgrounds, in this unit of learning pupils will gain an understanding of the importance of forces and how these affect objects, mechanisms and the world around them, including themselves. Forces –unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Some mechanisms, including levers and pulleys, allow a smaller force to have a greater effect. Key vocabulary - variables, accuracy, precision, causal relationships, gravity, mechanisms, levers, pulleys, transfers, fulcrum, fair test Weekly task – as before take your time and concentrate on using; your science vocabulary, accuracy, ensure it is a fair test (only change one thing at a time) and present your finding clearly and neatly. The NHM recovery team have been in contact saying that the meteorite is in a large crater and they need to get it out. Please can you help them come up with a plan, all they have to aid them are; a wooden plank, a rock, rope, old oil cans and a ground sheet. Do you remember what levers and pulley systems are? Watch this video to remind you. https://www.youtube.com/watch?v=jtk2V0M6k3M Levers can help lift a very heavy object using a much smaller force. Make a 'balance' a seesaw, (a type of lever), using weighted Lego figures or something similar. What happened? Now move one Lego person closer to the middle of the seesaw – what happens? (That Lego person goes up – the seesaw is unbalanced, as are the forces.) Try again, but this time move the balancing platform (this is what we call this a fulcrum). How can you explain what you have seen happen? Moving one weight closer to the fulcrum has what effect? Moving the fulcrum has what effect? What is it that causes the seesaw to go down? (Gravity acting on the Lego™ figure) - It needs an opposite/resistance force (weight of other figure) to balance it or move it upwards. How using a lever would help the recovery team. This is shown in science image I.

Lever Investigation Use science image 2 to make a table top seesaw. Remember you can use whatever you have at home it's your seesaw. You will need to identify where the best position is for the fulcrum (the point against which a lever is placed or on which it turns or is supported) in a simple lever. Identify those things that will need to stay constant while you take measurements and make observations for your main variable.

Plan methodically to ensure your testing is fair, logical and the results are not unreliable.

Lever remit:

•The lever needs to enable two 70kg people to lift a 200kg meteorite

Equipment:

•Table top seesaws (already prepped for lesson)

•Movable fulcrum

•Modelling clay

Possible variables to investigate What are you investigating? Can you come up with an enquiry question for your investigation?

Measuring and recording your results

What will you need to measure in order to know where the fulcrum needs to be? What will you use to measure with? How will you record your results? Think about what will help you to see the best outcome for the remote team.

Your findings What have you found out? Can you make any conclusive observations? Can you make any recommendations?

Record your recommendations in the form of a diagram, showing where forces are acting and the positioning of the fulcrum







	 In 2019, 568,000 houses were built. In 2018, 10 times fewer houses were built. In 2017, 100 times fewer houses were built. a) How many houses were built in 2018? 	
	b) How many houses were built in 2017?	
	c) How many houses were built between 2017 and 2019?	
	houses	
Wednesday	Create a poster/ poem or a set of instructions for how to accurately divide by 10, 100 and 1000 – keep it so you can use it as revision in year 6. Are there any ways to help you remember what to do? Can you use some examples too? If you want an extension task – do the same for multiplying by 10,100 and 1000.are there any tends or patterns you can see? Use this time too to revise your 2-12 x tables. Use TTRS to help. Can you write every times table out correctly? If there are any tables you struggle with really use this time to learn them. Year 6 Maths will really help if you know your	Prediction What has the monster turned into? You have three options to choose from: A. A huge, banana-eating monkey. B. A giant fairy with a sparkly wand C. A pink unicorn. Choose an option and then write the first couple of paragraphs of the next chapter.
	tables especially for fractions, word problems, reasoning etc.	



Practise your spellings for the week

Spelling:

Continue to play games on Spelling Frame. You could focus on these Y5/6 statutory spelling words this week:

aggressive amateur existence explanation recommend restaurant

<u>Reading</u>

Show an enjoyment for reading by reading a book of your choice. Aim to read for at least 10 minutes per day.

You could always use your Reading Record to record what you have read.



<u>Haiku</u> A haiku poem has three lines. The first line has five syllables, the second line has seven syllables and the third line has five syllables. A syllable is a part of a word that has a single sound. For example, the word banana has three syllables (ba/na/na). Now try to write your own haiku, describing the action in this chapter.



Science	
Images I	

Other examples are: nut crackers, nail clippers



Other examples are: sugar tongs, pair of tweezers

Table top seesaws

Making a table top seesaw is quick and easy. Below is one simple suggestion, but you may wish to use a different fulcrum (e.g. a cotton reel). **If you are using heavier loads, ensure you use more solid materials.**

You will need

Wood (equal size, cut to be the platforms) Tape Toilet-roll tube

Build your seesaw

Tape the toilet-roll tube to the table as shown. This is your **fulcrum**, the point where your platform rests. Balance your seesaw platform on top.



You can use different materials for the platform or for the fulcrum, but you should ensure that these match across all of your seesaws to ensure fairness. Cotton reels, steel tubes, and off-cut planks could all be used to replace these materials to produce a more solid lever.

Science image

Variables we kept the same: Variable changed: Distance of fulcrum from load: Can the load be lifted? Does load x distance of effor x distance of e	LEVER Enquiry question/s: INVESTIGATION						Science image 3	
Distance of tuicrum from load: Can the load be lifeted? Does load x distance of load to fulcrum effort x distance of effort to fulcrum Overall recommendations Scientific rationale	Variables we kept the same:			Variable changed:				
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Scientific rationale	Overall recommendations	·		-	-	-	-	
rationale	Scientific							-
	rationale							
	What else could we have i	nvestigated?						-
What else could we have investigated?								
What else could we have investigated?								

Maths Answers:

Monday and Tuesday



6 Complete the table.

1

Number	Number divided by 10	Number divided by 100	Number divided by 1,000
65,000	6,500	650	65
72,000	7,200	720	72
350,000	35,000	3,500	350

Write >, < or = to make the statements true.
 a) 4,900 ÷ 10 7 4,900 ÷ 100
 b) 56,000 ÷ 100 65,000 ÷ 100
 c) 93,000 ÷ 1,000 = 9,300 ÷ 100
 d) 5,700 ÷ 100 7 5,700 ÷ 1,000

8	Complete the sentences.				
	a)	Dividing a number by 10 and then by 10 again is the same as			
		dividing by 100			
	b)	Dividing a number by 1,000 is the same as dividing by 10 and then <u>by 100</u>			

9	In 2019, 568,000 houses were built.	8
	In 2018, 10 times fewer houses were built.	
	In 2017, 100 times fewer houses were built.	
	a) How many houses were built in 2018?	
	56,800 houses	
	b) How many houses were built in 2017?	
	5.100	
	5,600 houses	
	c) How many houses were built between 2017 and 2019?	
	(20.100) have	
	830,480 nouses	
10	Alex is thinking of a number.	\$
-	She divides it bu 100	1
	The answer has one more in the hundreds column than in the	
	tens column.	
	The total of the digits is 15	
	What could the number be?	
	E.g. 87,000	
		1



