




Year 6
Home Learning 6

Here are some topics which you can work from at home. All work can be recorded in a way you choose.
The theme for this week is **Anywhere Island**

Each day we put a 'Word of the Day' on the grid below. See if you can:

- Find the definition
- Use the word in a sentence
- List any synonyms
- List any antonyms
- Use the word in a different context
- Use an image to represent the word - be creative!

	English	Maths	Physical	Science	Creative
Monday Word of the Day - simultaneously	<p>Reading and Research</p> <p>Whilst out exploring, you have found an uninhabited, undiscovered island, which you can now claim as your own kingdom!</p> <ul style="list-style-type: none"> • Use atlases, globes or interactive maps on the internet, to decide where you'd like your newly discovered island to be. • Which sea or ocean does your island lay in? • Is it in the Southern or Northern Hemisphere? • Which countries and other islands are closest to it? • How close? • Which continent may claim it? <p>Complete the short reading comprehension attached below too.</p>	<p>Please see below for additional activities. Complete one each day.</p> <p>You also have MyMaths and TT Rockstars work as well as work in your text books or SATs papers.</p> <p>This website is also great and gives you daily activities revising all of the things you have learnt in Y6. You could use them as daily starters like we do in class. https://myminimaths.co.uk/year-6-mini-maths/</p>  <p>Also, don't forget the fantastic resources on the new BBC Bitesize website. Just click</p>	<p>Start a challenge for this week.</p> <p>Create a table and each day record how many of each of the exercises below you can do in 1 minute or for the plank and wall sit - how long you can hold them for before you collapse?</p> <p>Make sure you warm up and cool down to ensure you don't injure yourself.</p> <p>1 – Star jumps</p> <p>2 – plank</p>  <p>3 – sit ups</p> <p>4 – Burpees</p>	<p>The Galápagos Islands are an archipelago or group of islands that have been created by volcanoes. Watch the video on BBC Bitesize: https://www.bbc.co.uk/bitesize/topics/z3fycdm/articles/zk9cxyc</p> <p>The Galápagos Islands are home to lots of different types of plants and animals. They contain some of the most unusual animals on the planet. For example, giant tortoises, marine iguanas and even the Galápagos penguin.</p> <p>Choose an animal to find out about.</p>	<p>Now is your chance to design your island. What will it be called? What geographical features will it have? Look at these maps for some inspiration...</p> 

Tuesday

Word of the Day - impeding / ed

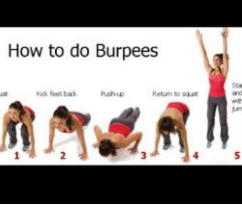
SPaG Day

Log onto SPaG.com and complete the online tasks.

If you do not have access to the online resources. See the attached activity below.

on Year 6 and it is full of exciting activities not just for maths but for all subjects.

<https://www.bbc.co.uk/bitesize/tags/zncsscw/year-6-lessons/1>



5 – wall sit



David Attenborough and his Natural World film crew are on their way to your island... a new species of animal has just been found there!

- Which animal group does it belong to?
- What does its diet consist of?
- What are its predators?
- What is its natural habitat?
- What makes it unique?
- What does it look like?
- What will you name it?

Can you draw the new species of animal?

Label its features and describe how its features help it survive on your island.

Wednesday

Word of the Day - revenge

Writing Day

You are approaching your new kingdom for the first time.

Close your eyes and imagine...

Then use your senses to describe it...

What can you see around you?

What can you smell?

What can you hear?

What can you feel –
With your fingers?
Under your feet?
Against your cheeks?

It's quite unbelievable to think that as these islands are so far from the mainland that any plants or animals even live there at all. How did they reach the island? It started with a very small thing! Bacteria and the spores of ferns, mosses, algae, and fungi plants arrived first. They were literally blown in by the wind and these tiny little things were perfect to live in places without much soil. But once they got bigger, so bigger plants grew. The seeds for these larger plants probably came from the stomachs of bird's crossing over. There is a coastal plant, which is like a mangrove that grew from seeds that literally floated to the island. How awesome is that? There are absolutely heaps of plants there, but not many of them are large flowering plants. The islands won't allow these flowers to grow because of what they need.

What type of plants might grow on your island? Think about the climate and biomes on your island. What plant would survive there?

Every country in the world has its own distinctive traditions, culture and language. Your island currently has no identity, and now's the time to start creating one. **In this lesson, you will design a national flag and a national anthem.**

The national flag of a country can often have a deep meaning and hold symbolic significance for the people of a nation.


<p style="text-align: center;">Thursday</p>	<p>Word of the Day - imagined / imagination</p>	<p>Writing Day <i>(This can be spread over 2 days)</i></p> <p>Use Your Senses Idea Collection from yesterday to write down all the words and phrases you can think of.</p> <p>Use thesauruses and dictionaries to try to collect rich and ambitious vocabulary.</p> <p>Now turn your ideas into a passage of descriptive writing about your first impressions of your island. How could you open your sentences?</p> <p>Upon first glance... Above my head... Everywhere I looked... Mysteriously...</p>			<p>Galapagos penguins are the rarest and most endangered penguin species in the world, and the only penguins found at the equator.</p> <p>One of the reasons for the endangered status of the penguins is limited nesting options. Many nests (small caves or crevices in lava) used 40 years ago either no longer exist, are used by marine iguanas, or get periodically flooded.</p> <p>List the top ten most endangered animals in the world. Research what reasons are behind their decline?</p>	<p>Why do countries have rules and laws? If your island is going to start to have inhabitants who live there, do you need to set some laws for them to live by?</p> <p><i>Will there be age restrictions on doing certain activities?</i></p> <p><i>Will people have 'freedom of speech'?</i></p> <p><i>Will children be required to go to school?</i></p> <p><i>How will people be punished for breaking the law?</i></p>
		<p style="text-align: center;">Friday</p>	<p>Word of the Day - jubilant</p>	<p>Spelling Day Choose 10 different Year 6 spelling words and write a paragraph which includes them all.</p> <p>Can your paragraph have a Victorian theme?</p> <p>Log on to Spelling Shed and complete this week's activities.</p>	<p>Today is the final day of your challenge!</p> <p>Can you do the most of each of the exercises today?</p> <p>Can anyone in your house beat you?</p> <p>Have you improved since Monday?</p>	<p><u>How can we make the noodles dance?</u></p> <p>You will need:</p> <ul style="list-style-type: none"> Clear glass jar Cooked noodles Water Vinegar (preferably distilled) Baking soda Food colouring Spoon/fork Towel <p>Follow the instructions attached below...What happens to the noodles when you add the baking soda to the water and vinegar?What do you think is happening?</p>

Website of the Week:

<https://www.natgeokids.com/uk/>

A website full of information, activities, games and quizzes.

Recommended websites/apps:

Science	P.E	MFL - Spanish
https://new.siemens.com/uk/en/company/education/students/diy-videos.html Make sure you get parental consent before attempting any of the investigations.	https://www.youthsporttrust.org/free-home-learning-resources-primary Lots of activities and 60 second challenges to choose from.	Download the app 'Duolingo' from the app store.  duolingo Fun and completely free of charge. Click on Spanish.

Maths Activities

Monday

Code Cracker

**Europe Day
9th May 2020**

Europe Day celebrates peace and unity in Europe. The date is extra special as it marks the beginning of the 'Schuman declaration' when, during a speech in 1950, Robert Schuman first laid out his idea for political peace in Europe.

Complete these calculations and find the corresponding letters in the code cracker grid to find out the aim of the Schuman declaration.



- | | |
|--|---|
| 1) $3275 + 330 = \underline{\quad}$ | 9) $7.2 \times 5 = \underline{\quad}$ |
| 2) $8 \text{ squared} = \underline{\quad}$ | 10) $15\% \text{ of } 40 = \underline{\quad}$ |
| 3) $40 \times 60 = \underline{\quad}$ | 11) $2.5 \text{ hours} = \underline{\quad} \text{ minutes}$ |
| 4) $30,000 + 10 = \underline{\quad}$ | 12) $\text{A straight line} = \underline{\quad}^\circ$ |
| 5) $9 \times 8 = \underline{\quad}$ | 13) $36 \times 100 = \underline{\quad}$ |
| 6) $30 \times 4 = \underline{\quad} \times 2$ | 14) $10,000 - 8420 = \underline{\quad}$ |
| 7) $\frac{3}{4} \text{ of } 200 = \underline{\quad}$ | 15) $4.2 \text{ litres} = \underline{\quad} \text{ ml}$ |
| 8) $0.2 = \underline{\quad}\%$ | 16) $420 \div \underline{\quad} = 0.6 \times 10$ |

A	B	C	D	E	F	G	H	I	J	K	L	M
3000	36	90	3710	60	63	19	4200	1580	450	72	70	2400
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
6	64	180	42	20	3600	3605	150	9	150	240	360	27

Aim: $\frac{\underline{\quad} \underline{\quad}}{(1) (2)} / \frac{\underline{\quad} \underline{\quad} \underline{\quad}}{(3) (4) (5) (6)} / \frac{\underline{\quad} \underline{\quad} \underline{\quad}}{(7) (4) (8)} / \frac{\underline{\quad} \underline{\quad} \underline{\quad} \underline{\quad} \underline{\quad}}{(9) (6) (1) (7) (8) (6) (10)} /$
 $\frac{\underline{\quad} \underline{\quad} \underline{\quad}}{(6) (11) (8) (2) (12) (6) (13)} / \frac{\underline{\quad} \underline{\quad} \underline{\quad} \underline{\quad} \underline{\quad}}{(10) (4) (1) (14) (2) (10) (13)} /$
 $\frac{\underline{\quad} \underline{\quad} \underline{\quad} \underline{\quad} \underline{\quad}}{(11) (10) (1) (15) (14) (10) (5) (4) (9) (16) (6)} \cdot$

**The numbers in brackets are the question numbers.*

Tuesday

Average Analysis

FA Cup Final (2) 23rd May 2020

The FA Cup (or the Football Association Challenge Cup) is a football competition that happens each year. You've probably heard of it! It was first played during the 1871-72 season and is actually the oldest football competition in the world!

Here are the results from the 2017 FA Cup 1/8-finals and Quarter-finals:

ENGLAND: FA Cup				Draw
Quarter-finals				
13.03. 19:45	Chelsea	Manchester United	1 : 0	
12.03. 14:00	Tottenham	Millwall	6 : 0	
11.03. 17:30	Arsenal	Lincoln City	5 : 0	
11.03. 12:15	Middlesbrough	Manchester City	0 : 2	
1/8-finals				
01.03. 19:45	Manchester City	Huddersfield	5 : 1	
20.02. 19:55	Sutton	Arsenal	0 : 2	
19.02. 16:15	Blackburn	Manchester United	1 : 2	
19.02. 14:00	Fulham	Tottenham	0 : 3	
18.02. 17:30	Wolves	Chelsea	0 : 2	
18.02. 15:00	Huddersfield	Manchester City	0 : 0	
18.02. 15:00	Middlesbrough	Oxford Utd	3 : 2	
18.02. 15:00	Millwall	Leicester	1 : 0	
18.02. 12:30	Burnley	Lincoln City	0 : 1	

Using the image above, work out the answers to the following questions:

1. How many goals were scored in total?
2. Which team scored the highest number of goals in both rounds?
3. Which teams scored 3 goals in both rounds?
4. Which match had the largest goal difference?
5. Which match resulted in a draw?
6. Calculate the mean, mode and median number of goals scored. Round any decimal numbers to 1 decimal place.

Wednesday

Magic Maths

Walk to School Week 18th – 25th May 2020

This year on the Tuesday of Walk to School Week, pupils, parents, and teachers everywhere can raise money by wearing their happy shoes (e.g. gorilla feet, or shiny shoes)!

Impress your friends with this maths magic trick that lets you work out their shoe size and age!



Give your friend a piece of paper and a pencil and ask them to do the following calculations without showing you:

1. Write down your age.
2. Multiply it by one-fifth of 100.
3. Add on today's date (e.g. 16 if it's the 16th of the month).
4. Multiply by 20% of 25.
5. Now add on your shoe size (if it's a half size round to the next whole number).
6. Finally subtract 5 times today's date.
7. Show me your final answer!

Now look at their answer. If, for example, somebody shows you 1105, that means there are 11 hundreds. This is their age. The remaining digits 05 (or 5) show their shoe size.

Brainteaser!

Can you explain why this trick works?
Can you show how it works algebraically?

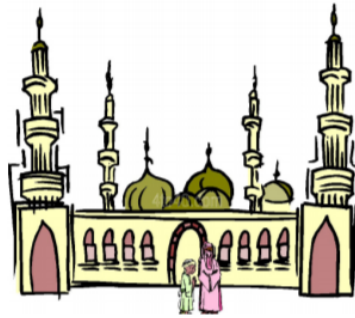
Thursday

Fasting Times

Ramadan
23rd April -
23rd May 2020

Ramadan is the ninth month of the Islamic lunar calendar. Every day during this month, Muslims around the world spend the daylight hours in a complete fast. Ramadan is much more than just not eating and drinking; it is a time to purify the soul, refocus attention on God, and practise self-discipline and sacrifice.

1. a) How many days does Ramadan last?
b) How many hours is this?
2. If daylight hours are from 04:45 to 21:15, how many hours are spent fasting each day?
a) Each week?
b) For the whole of Ramadan?
3. Give the answers to question 2 in days (rounded to the nearest whole day).



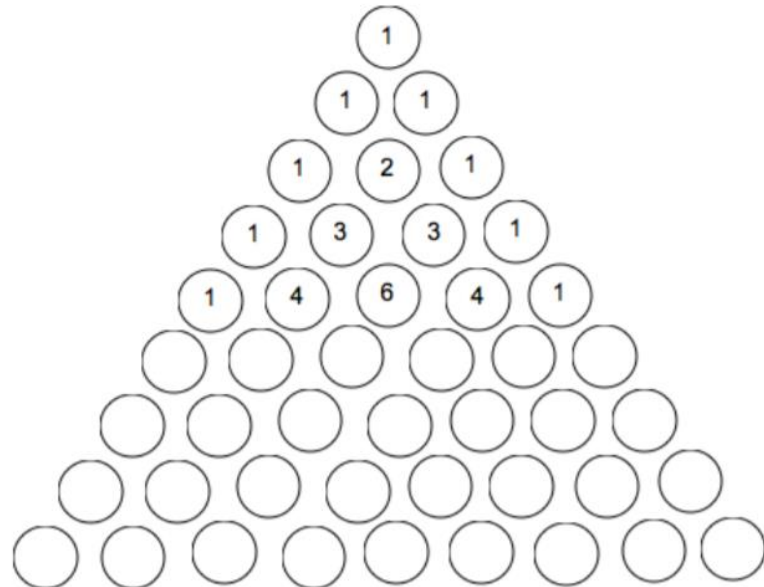
Friday

Pascal's Triangle

**Blaise Pascal's
Birthday: 19th
June**

Blaise Pascal was a French mathematician, physicist, inventor, writer and Christian philosopher. He was a child prodigy who was educated by his father, a tax collector in Rouen.

This is Pascal's Triangle:



1. How is the triangle made?
2. Complete the next 4 rows of the triangle.
3. Find the sum of each row. Can you see a pattern?
4. Can you see any other number patterns in the triangle?

SPaG Day Activity (if you can't access SPaG.com)

Write out the following sentences again, joining each pair of sentences with a conjunction. (Don't forget to get rid of the full stop and the capital letter.)

E.g. The man was tired. He had worked hard.

The man was tired because he had worked hard.

Use the conjunctions in the word bank below to help you. Try to use as many different conjunctions as you can. Make sure the sentence makes sense.

1. Jane was not allowed out. She had finished her homework.
2. Rebecca decided to walk to the village. Her ankle was swollen.
3. The coach will arrive on time. There are traffic problems.
4. Matthew has been out every night. He passed his driving test three weeks ago.
5. Some people had to travel to the match by car. There was no space left in the minibus.
6. I looked for the book on the library shelves. I had checked its details on the computer.
7. Sharon pretended that she wanted to borrow the book. She had no intention of reading it.
8. You have to know the password. I won't let you in.
9. I like to go to the shops. I love buying clothes.
10. Rachel's mother hates football. She always goes to watch her play in matches.
11. Howard turned red with embarrassment. It was his turn to speak.
12. I did my homework early. I could watch telly all night.
13. I will come to your party. I can find your house.

14. I was so happy. All my friends came to see me.
 15. The writer described all the characters. He told the story.

and or but because as since so if when
 after before while even though although until unless

Now write 5 sentences of your own. Use a different conjunction in each one. Underline all of the conjunctions in your work in a different colour.

Reading Comprehension Activity

'Extinct' Tortoise Found

9 Scientists have found a species of giant tortoise no
16 one had seen for over 100 years!
23 Fernandina giant tortoises live on the small
31 island of Fernandina. It's part of the Galapagos
39 archipelago. These are 19 islands in the Pacific
48 Ocean which are famous for being the place where
55 Charles Darwin developed his theory of evolution.
63 Most scientists had thought that the species was
72 probably extinct. Many were killed for food and their
78 oil in the last 200 years.
84 However, scientists have found a 100-year-old
92 adult female Fernandina giant tortoise on the island!
99 They've also found footprints and giant tortoise
109 poo so they think there might be more living on
111 the island.
121 The tortoise has been taken to a nearby island for
125 health and genetics checks.



Quick Questions

1. Find a word meaning a group of islands.

2. Find a phrase the author uses to show that scientists weren't certain if there were any living Fernandina giant tortoises.

3. Find two reasons why scientists believe there are more giant tortoises on the islands.
1. _____
2. _____
4. What do you think scientists will do next? Explain your answer.

Instructions for the science experiment

The Activity

1. Put water and vinegar in the jar in a ratio of 1:1 (equal amounts of both). It depends on the size of your glass jar as to how much you put in.
 2. Cut the noodles up into smaller pieces so they fit into the jar without bending.
 3. Add the cooked noodles to the water and vinegar and add a few drops of food colouring if you choose to. Stir the mixture.
 4. Get ready for the fun part! Add a tablespoon at a time of baking soda to the jar and watch what happens. The noodles will start to 'dance' up and down the jar.
 5. It is at this stage you may need your towel to clear up any 'explosions'.
 6. After about 10 tablespoons of baking soda the experiment will stop working. If the children want to repeat it then you will need to replace all the water and vinegar and start again.
- Note:** This experiment can also be carried out using rice instead of noodles.

Don't forget to cut the noodles into shorter pieces before you use them.
What happens to the noodles when you add the baking soda to the water and vinegar?
What do you think is happening?
Do the noodles 'dance' every time you add the baking soda?
Try the same experiment but using rice instead!