



Enriching Learning

Spring Term 2020

Year 4

'Resilient Researchers'



The following links will help you to practise some of the key learning for Maths, English and Topic this term. You can choose which things you most need to practise, and when and how long you spend on them. **Choose one of these activities to complete and hand in each week. Homework should be handed in on Thursdays in your homework book.** Make sure that you choose a range of activities (some from each box) during the term.

Mathletics

www.mathletics.com/signin

We would like the children to become Mathletics whizzes, where they can hone a wide range of mathematical skills. They could work on the following:

- *Mathletics live - practise simple mental skills by competing against members of your class or children from around the world.
- * Learning activities - pick a mathematic area that you would like to improve in. Times tables would be a good place to start.
- *End of unit test - found at the bottom of each unit page under the learning tab.

Other useful websites for Maths:

<https://www.topmarks.co.uk/maths-games>

<https://mathsframe.co.uk/>

Reading Reminder:

This term, we expect you to read for at **least 20 minutes for a minimum of three sessions per week.** Make sure that you record these sessions in the school reading diaries, which should be brought into school every day. Diaries will be checked every **Friday.**

Spelling sheets will be given to your child by their spelling teacher every week.

STEM Focus:

The following links will help you to develop your understanding of our topic this term.

<http://www.primaryhomeworkhelp.co.uk/science/index.html>

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

<https://www.bbc.co.uk/bitesize/subjects/z2pfb9q>

<http://www.sciencekids.co.nz/>

<https://www.bbc.co.uk/newsround>

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

English Activities:

- How does a vacuum work? How does your food stay cold in the fridge? Research and create a simple explanation text about a device or you could create a fantasy version - maybe dragons are the key to how toasters work.
- Create a comic strip to explain a science concept or process so a younger child could understand it. You could explain how the heart pumps blood or how sound travels to the ear.
- Find a wordless text or a story designed for younger readers and add speech to the characters. What are they saying, thinking or feeling? You could look at Rosie's Walk or Journey.
- Who is your favourite character in a book? Create a fact file to describe them. What do they look like? Where do they live? What is their personality? What has happened to them?
- Create a diary entry for a famous scientist, mathematician or engineer. What amazing thing did they do, discover or create that day?
- You could create a newspaper article to describe the day the telephone was invented or when the first humans went to space. Pick a famous event or invention and let the world know.
- You just invented a new amazing device that will change the world. What is it? How does it work? Write a letter telling your family about it. Create a poster to advertise it to the world or create a speech persuading people to buy your new invention.

Maths Activities:

- Follow a recipe and weigh each ingredient using scales. Add the cooking times to the current time to work out when it will be ready.
- Create a questionnaire and gather data about the perfect night in from your family and/or friends. Consider the entertainment, the dinner, snacks and drinks. You could present the data in graph form.
- Use 2D shapes to create a tessellation picture.
- Go to a shop with an adult. Create a 25% off sale. For each item the adult buys, work out the new price for the item. You could change it to a 10%, 20% or 50% sale.
- You have invented a new food product. What is it called? What are the ingredients? You could create a net for the packaging.

STEM Activities:

- Try stargazing. Pick a clear and dry night and look up to find stars, planets and maybe a comet.
- Create a 3D model of a scientific process or concept. It could be a model of the solar system, the inner workings of an ear or the water cycle.
- Research a famous scientist, mathematician or engineer. When were they born? Where did they study? What amazing thing did they do?
- Design a bridge to hold the weight of one of your toys. What shape will it be? How will you make it strong?
- Create a piece of art with a hidden meaning. Perhaps you could hide Maths concepts in it, use the faces of famous scientists or show modern technology being used in unusual ways.
- Why not investigate some of the questions below:
 - What happens when you mix oil and water?
 - Does an orange float? Does it float with its rind on?
 - How can you drop an egg without it breaking? (You may need to design something for this one.)
 - Does toast always land butter side down?
 - Is sound louder through a balloon?
 - Is invisible ink real?
 - Can you make water bend without touching it?

The above is a suggested list of ideas. If you would like to carry out your own project, we would be excited to see it.