Useful websites

Find a list of websites below that The Meadows Primary Academy uses to support home learning:

https://explorify.wellcome.ac.uk/

https://www.bbc.co.uk/bitesize/

https://spark.iop.org/collections/marvin-and-milo#sew-ice-cube

https://wowscience.co.uk/

https://www.natgeokids.com/uk/category/discover/science/

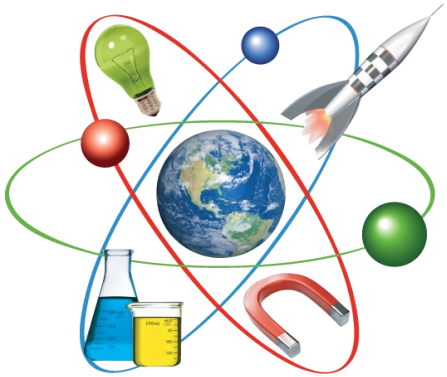
https://www.theschoolrun.com/primary-science-glossary-for parents

EXPERIENCE	Gather objects or food into a bag and challenge family members to guess what they are whilst blindfolded! Can they guess the fruit from the taste? The spice by the smell? The instrument by listening to it? Your family could even set this challenge for you to put your senses to the test!
GROW	Grow some plants or flowers at home from seeds or bulbs. Could you grow any herbs or vegetables to use as part of a meal? You could also have a growing competition with family and friends, too - who can grow the tallest sunflower?
RESEARCH	Research and learn about famous scientists (both past and present) and their greatest inventions and discoveries. You could make a little biography, fact file or even a quiz for your family with the information you have learnt.
EXPLORE	Go on a nature walks - in the woods, a park or even your own back garden - and collect different leaves, flowers or plants. Use a plant guide or an app to identify their species and create a classification key or a guide to identifying them!
OBSERVE	Create a 'Bug Hotel' in your back garden from old bricks, plant pots, pieces of wood, rocks (whatever you can find!) and observe which minibeasts come to stay!
RECORD	Create a Science Journal to record all of the experiments and experiences you are having at home. This could include photographs, diagrams/drawings or a written report!

The Meadows Primary Academy

The Meadows Primary Academy

Help your child with Science at home



Updated April 2020

Primary Science

The primary curriculum for science provides the foundation for children's secondary school education. Children encounter all three main strands of science; biology, chemistry and physics. Through their time in primary school, children have the opportunity to revisit topics periodically with increasing depth. This cyclical approach builds solid foundations to build on in the future.

In addition to the content knowledge that children are taught, there is a huge emphasis on developing scientific skills. Children are encouraged to:

- Ask questions
- Plan enquiries to answer questions
- Make predictions
- Carry out tests and investigations
- Identify and classify
- Observe and measure accurately
- Record and present results in a range of ways
- Draw conclusions based on their data and results

Helping your child to develop their Scientific skills

EYFS

Encourage your child to ask questions about the world around them. This is great from an early age and the questions can increase in complexity the older your child gets.

Prompt children from an early age to use full sentences to ask questions.

Carry out simple experiments at home. These could be as simple as "will this object float on water?" Before testing encourage your child to make predictions and explain why using "because".

Identification and classification is a key skill that runs through the entire primary curriculum. Younger children can carry out activities such as grouping items in the garden into: alive, dead and never been alive.

Children could also grow their own plants and observe them and measure them as they grow.

KS1

Encourage your child to answer their own questions whether that be through practical investigation or through research. As your child gets older, these reasoning and explanations should become more scientific and be based on what children have already learnt.

They could also group objects around the house based on the materials they are made from and their properties. For some children it might be appropriate to give them the categories but other children might chose their own groups.

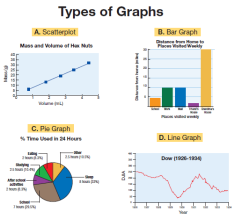
The Meadows Primary Academy

Scientists, in the real world, are constantly making observations and taking accurate measurements. Simple observations such as weather and moon diaries are simple but effective ways that children can improve these skills at home.

KS2

Children could identify plants and animals in the local environment and group them based on characteristics. Encourage them to categorise in more than one way. They can also observe plants at different points of the day.

Helping children to record results is a great way to improve their scientific skills. Creating tables and graphs helps to organise results so that any patterns or trends are clear to see. This helps children to draw conclusions from their results and enables them to answer the question that they originally started with.



Golden Rules

√ **Do** give lots of praise! Resist the temptation to point out mistakes every time a children does something wrong.

√ **Do** carry out experiments at home. They can be great fun for all the family.

√ **Do** remember that your focussed attention will help your child.

√ **Do** encourage your child to talk about what they are doing and what they are observing