

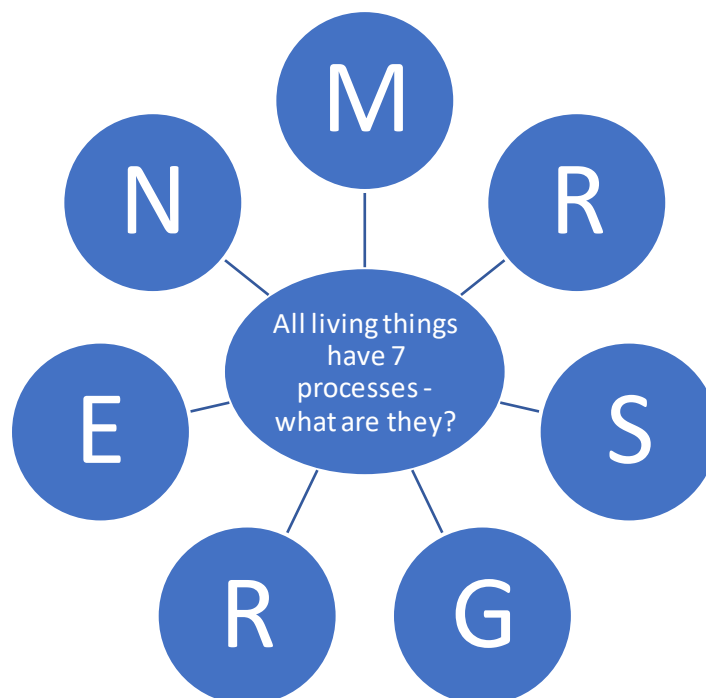
Two week Science Project on Living Things and their Habitats

This half term, we would have started our next Science topic of 'Living Things and their Habitats'. This project is intended to take about 2 weeks and is based around the key questions that are in the curriculum, with a variety of activities to help you explore along the way. There are lots of great web sites, some of which are listed at the end but there are no PowerPoints to work your way through.

The aim is that through doing this project, you will be able to answer all of the questions in your own words. The questions have been grouped together around a main, focus question and you can do the main questions in whatever order you would like but try not to mix up the linked questions and suggested activities. You are free to use your School Closure Book, a scrapbook, A4 paper, a Word Document but remember to allow yourself the opportunity to have plenty of time offline and outside.

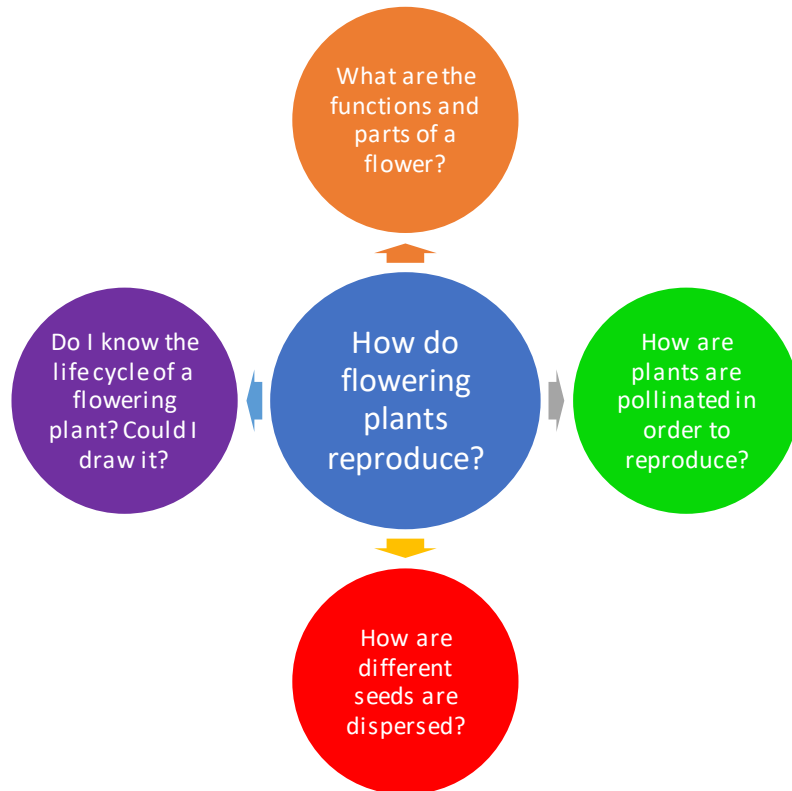
Remember too, that Science is all about being curious and finding things out for ourselves. The activities are suggestions but if something catches your imagination, feel free to follow it be it through photos, Art, craft or further online research.

To get you started, think about the following question:



- Which ones do you think you know already?
- Can you guess what the G stands for or the M?
- Think of a living thing to help you and remember plants, mammals and fungi are all living things and they ALL have these 7 processes in one form or another.

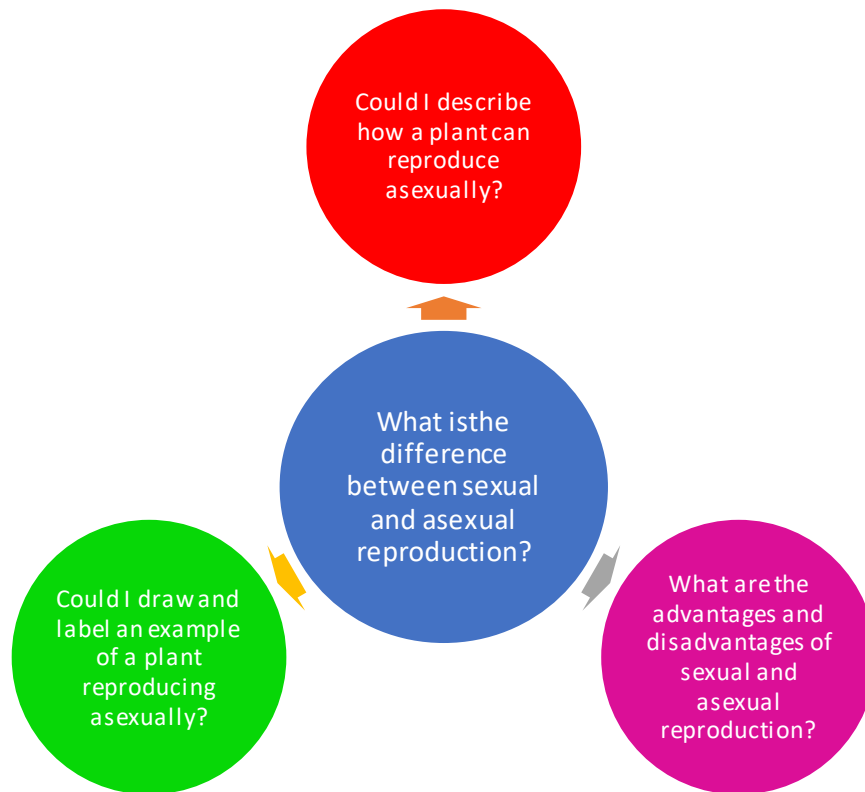
Question 1:



Suggested Activities (but remember that you can create your own or add extra elements if your curiosity takes you down a different route):

- Be a detective in your garden or on a walk and make notes, draw or take pictures of different flowering plants.
 - Look at the colours and the structures. Are they all the same?
 - If not, in what way are they different?
 - Why do you think, as a scientist, that might be?
- Do some online research about the different parts of a flower
 - What are the names?
 - What are their functions? (Can you think of any acronyms or rhymes to help you remember them?)
- Draw and label a flower
 - Could you pick one and dissect it?
 - Look at it with a magnifying glass – if you have one- to see the small details
 - Look at it from different angles – is the underside the same as the top?
- Research what is meant by 'pollination'
 - Think about what you have already observed, what is the main pollinator of flower?
 - What clues are there when looking at plant as to what pollinates it?
- Research or explore how seeds get to where they start to grow
 - Where do seeds come from?
 - How did Mrs Kretschmer's garden suddenly have strawberry plants that she didn't buy or plant?
 - Do you or any pets have a part to play in the life cycle of a flowering plant?

Question 2:



Suggested Activities:

- Research what is meant by the two different terms
 - List the main differences
 - How do you know, when looking at a plant, how it reproduces?
 - Are there any plants that can do both?
- Be a detective in your house, garden or on a walk
 - Are there any plants that I can identify as reproducing asexually?
 - Can you draw or photograph them?
- Be a gardener and grow a new plant asexually
 - What plants might be available?
 - Does anyone in your family know how to do this (grow a new plant but not from a seed?)
 - Keep a diary or a photo diary of your progress
 - Those of you who enjoy computing, could you use these photos to create a time lapse movie using movie editor?
- Think about what is necessary for pollination versus asexual reproduction and draw up a list of pros and cons (what's good and what's bad about each)
 - Research online
 - Create your own list thinking about the key elements required for each
 - What happens if the main plant is not healthy?
 - Why might it be important for a new plant to not be close to its parent?

Useful websites:

<https://www.bbc.co.uk/bitesize/topics/zy66fg8>

<https://www.bbc.co.uk/bitesize/topics/zgssgk7/articles/zyv3jty>

<https://www.bbc.co.uk/bitesize/topics/zgssgk7/articles/zqbcxfr>

<https://www.bbc.co.uk/bitesize/topics/zxfrwmn/articles/z28dpbk>

<https://www.natgeokids.com/uk/discover/science/nature/the-life-cycle-of-flowering-plants/>

<https://www.topmarks.co.uk/Search.aspx?q=plants>