



EYFS begin their science learning journey studying plants and animals in their local environment and developing the scientific skill of observation.

Tuesday 17th June

I know how to identify and name the parts of a plant.



What is the same about the flowering plant you looked at today and the trees we looked at before?

They both have ^{leaves} Leafs.

What is different? The Tree has a trunk but the plant has a stem.



Year 1 - Year 1 look at the parts of a plant in more detail after observing and comparing different plants practically.

Date 22/5/25

I know what plants need in order to grow.

 water	 sunlight	Height: <u>1.5</u> cm	 water	 sunlight	Height: <u>2</u> cm
					
 water	 sunlight	Height: <u>0</u> cm	 water	 sunlight	Height: <u>7/2</u> cm
					

Year 2 - set up simple tests to investigate the conditions plants need to be able to grow.

Tuesday 28th February 2024

Can I write a method, plan a fair test, make a prediction and record results?



I am investigating

whether all magnets are equally strong?

Method (What I will do)

I am going to put a paperclip at the end of the ruler and slowly moving a magnet towards it. I will measure when the paperclip starts to move.

We will keep it a fair test by:

I will keep the paperclip the same. I will move the magnet out the same speed. I will use the same ruler.

Results:

small = 3.5, 2.5, 2cm

medium = 1.5, 1cm, 9mm

large = 1cm, 2mm, 1cm, 1cm, 1cm, 1cm

The bigger the magnet, the stronger it is going to be. Do you agree or disagree?
How do your results help you to answer this question?

I disagree because in my results

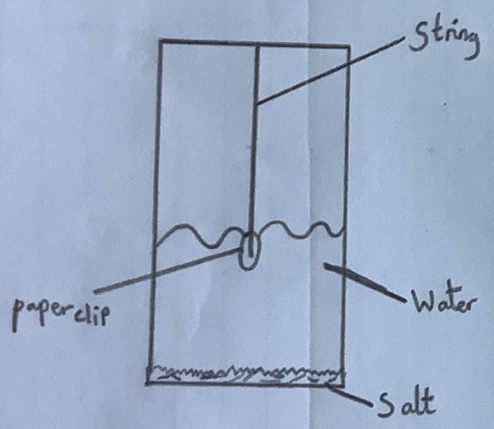
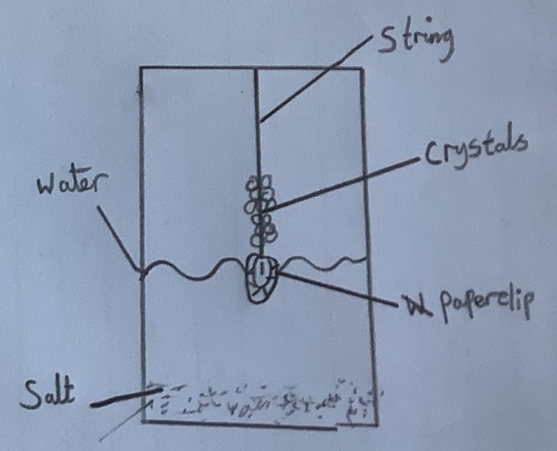
small was 3.5, 2.5 and 9mm but my large had 1cm, 2mm, 1cm, 1cm, 1cm and 1cm.

Year 3

Developed their working scientifically skills by planning, carrying out and recording an investigation.

Tuesday 26th March 2024

Can I observe how crystals grow over time?

Starting observations	Week 1
 A hand-drawn diagram of a rectangular jar. Inside the jar, there is a wavy line representing the water level. Below the water level, there is a layer of small circles representing salt. A vertical line represents a string hanging from the top of the jar. A small circle representing a paperclip is attached to the string and is partially submerged in the water. Labels with leader lines point to 'String', 'Water', 'Salt', and 'paperclip'.	 A hand-drawn diagram of the same rectangular jar after one week. The water level is shown with a wavy line. The string is still present, and the paperclip is still attached to it. Now, there are small circles representing crystals growing on the string and the paperclip. The salt layer at the bottom is still present. Labels with leader lines point to 'String', 'Crystals', 'Water', 'Paperclip', and 'Salt'.
The salt had sunk to the bottom of the jar and it had stopped dissolving.	The crystals are on the paperclip its on the string also the paperclip is rusted.

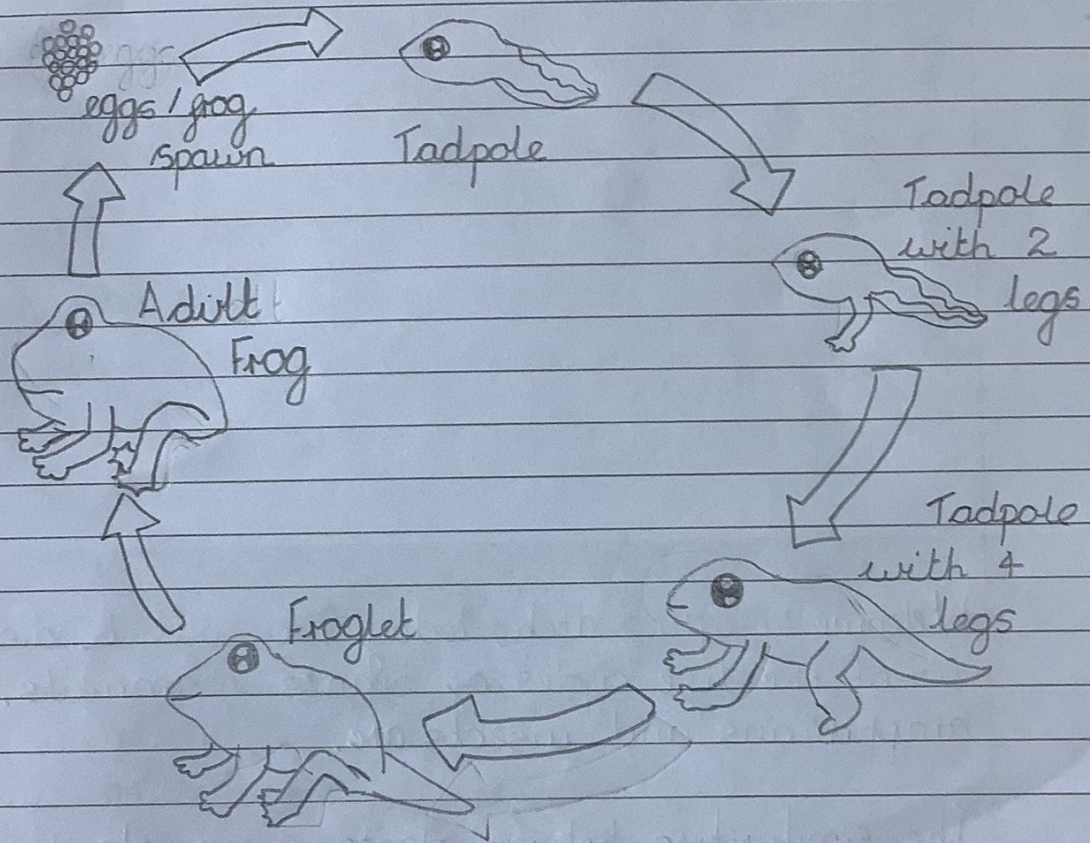
Year 4

The children used scientific drawings to record their results of an enquiry observing changes over time.

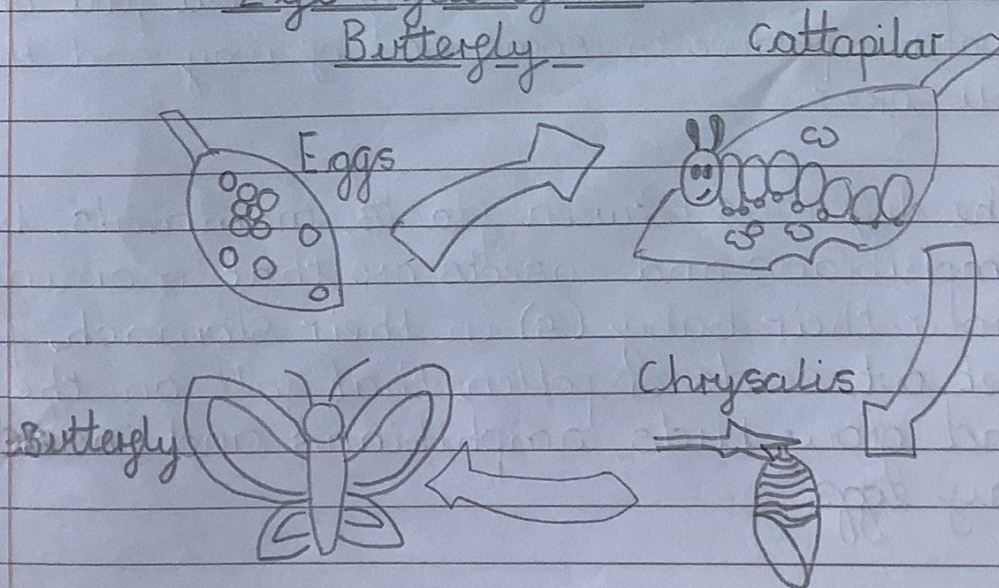
Tuesday 5th March 2024

Can I compare the life cycles of Amphibians and Insects?

Life Cycle of a frog



Life Cycle of a Butterfly



Year 5

The children have been working scientifically by presenting results of research using secondary sources.

Monday 11th March 2024

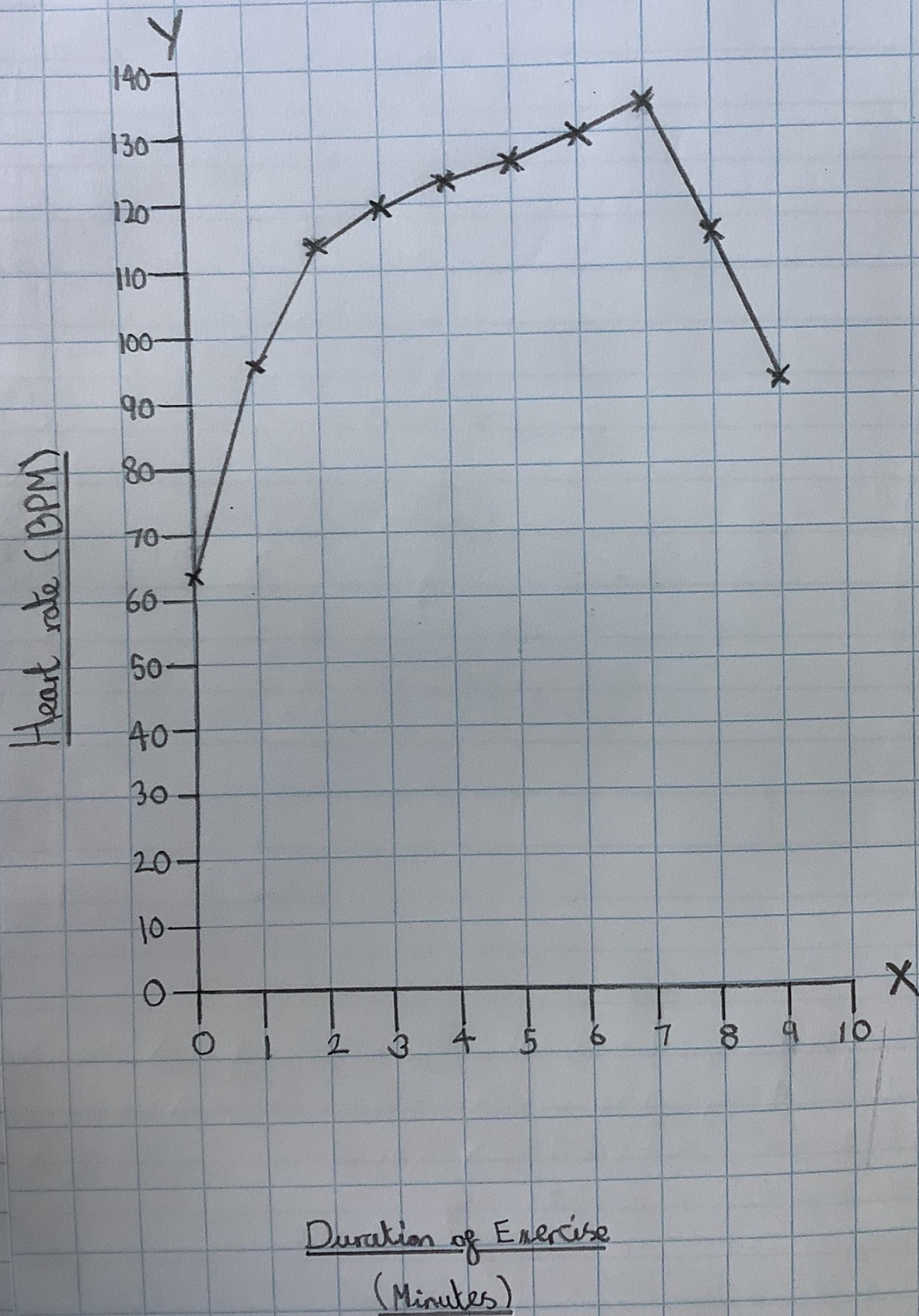
Can I investigate what happens to your heart rate when you exercise?

I predict that my heart rate will increase when I exercise because the muscles need more nutrient and oxygen so the heart needs to pump the blood around the body more quickly.

Type of Exercise	Beats in 30 Seconds	Heart Rate (bpm)
Resting heart rate	32	64
Punches	48	96
Push Ups	57	114
Squats	60	120
Jumping jacks	61	122
High Knees	63	126
Mountain Climbers	65	130
1 min recovery time	67	134
2 mins recovery time	58	116
3 mins recovery time	46 46	92

During exercise, your heart rate will increase so that enough blood is taken to the working muscles so that they won't become weak. In conclusion, I discovered that when you exercise, your heart rate increases. Next time I would put the exercises in a more efficient order and use different monitors to measure our heart rate.

A graph to show what happens
to your heart rate when you exercise



Year 6

The children are taking increasingly precise measurements and using these to produce a graph to present their findings.