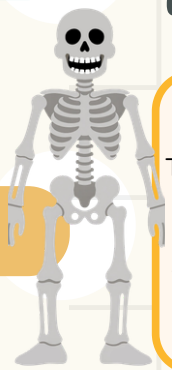
Science Newsletter

OCTOBER



Year 3

This half term, Year 3 have been learning about skeletons, movement and nutrition. They have explored the similarities and differences between the skeletons of mammals, birds, fish, amphibians and reptiles, as well as identifying ball-and-socket and hinge joints. They have discovered how our skeleton, joints and muscles work together to allow movement.

The children have also learned about nutrition and diet, exploring the five food groups, what makes a balanced diet, and how the dietary requirements of different animals vary.

Videos to reinforce learning:

Year 3

Year 4

Year 5

Year 6

Year 4

This half term, Year 4 have been learning how to group and classify living things based on their features and use classification keys. They have also learned new vocabulary, including vertebrate and invertebrate. The children have been collecting data about the plants and animals in our local area, which they will continue throughout the year to explore how seasonal changes affect plant and animal life. They will also present their findings in a variety of ways.



Year 5

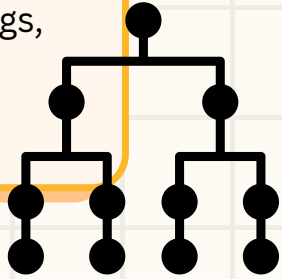
This half term, Year 5 have been learning about the Solar System and what it is made up of. They have explored the different planets and their features, comparing the similarities and differences between them. The children have also investigated how our understanding of the Solar System has changed over time and learned how the Earth's rotation and orbit create day, night and the seasons.





Year 6

This half term, Year 6 have been learning about living things and their habitats. They have explored the conditions needed for life and the differences between living and non-living things. The children have also built on their knowledge of classification keys, using them to classify a range of things, including sweets, animals and plants.



Awe and Wonder Experiment

Materials



Vegetable oil


Bowl


Food colouring


Water


Jar

Instructions

1. **Add a little vegetable oil to a bowl.**
2. **Add 3–4 drops of water-based food colouring for each colour. Use no more than three colours.**
3. **Fill a jar ¾ full with water, then add the oil mixture.**
4. **Watch the fireworks! The oil floats because it is less dense than water, while the water-based food colouring sinks through the oil and into the water, creating a firework effect.**

The Science Bit!

Oil and water do not mix. Oil is less dense than water and floats on top. The food colouring is water-based so it mixes with the water. When you add the food colouring to the oil, it will not mix. Once you add the oil to the water, the food coloured droplets start to drop down since they are heavier than the oil. Once they drop into the water, they start to dissolve and look like tiny explosions (or fireworks).



