

Perton Primary Academy Knowledge Organiser

Science Topic: Grouping & classifying

Year Group:
Year 4

Overview:

Children will learn why we sort and group things and the important classification skills of observing and questioning. They will learn what classification keys are and how they identify living things. They will learn the characteristics of the five vertebrate groups and the six main invertebrate groups. They will learn how to identify vascular and non-vascular plants and sort vascular plants into the three main groups. They will also examine and classify real plants and create a classification key based on their observations. They will learn about some newly discovered plants and animals and use a classification key to classify each discovery.

Opportunities to develop working scientifically:

- Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- Identify differences, similarities or changes related to simple scientific ideas and processes.
- An observation involves looking closely at objects, materials and living things. Observations can be made regularly to identify changes over time.

Key vocabulary:

- Plants with seeds - flowering
- Plants with seeds - cone-bearing
- Backbone
- Classify
- Evolution
- Origin
- Vascular
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Prior Learning:

Predator - Year 3

Future Learning:

Middle school.

Key knowledge:

This project teaches children about grouping living things, known as classification. They study the animal and plant kingdoms and use and create classification keys to identify living things.

Memorable Learning Experiences:

Guess who

Assessment Questions:

- I can use a classification key
- I know the characteristics of invertebrate and vertebrates
- I know the difference between vascular and non-vascular plants