

Science Overview – Living things and their habitats

Year Four

Autumn Term

Key Question: How do human actions affect our planet?

National Curriculum

- recognise that living things can be grouped in a variety of ways.
- explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.
- recognise that environments can change and that this can sometimes pose dangers to living things.

SUBSTANTIVE KNOWLEDGE

- 1) Know that there are 7 life processes (MRS GREN) that living things need to stay alive and healthy.
- 2) Know that plants and animals rely on the environment to give them everything they need.
- 3) Know that changes (natural or human made) to the environment can impact on the living things living there.
- 4) Know that living things can be sorted into different groups depending on their characteristics.
- 5) Know that classification keys help us to group and identify living things.
- 6) Know how to use a classification key.
- 7) Know the difference between a vertebrate and invertebrates.

Key Vocabulary

life processes, habitat (Y2 vocab recap)
organisms, respiration, sensitivity, reproduction, excretion, nutrition,
environment, endangered species, extinct, classification, vertebrates,
invertebrates, specimen, characteristics

Previous years vocabulary

life processes, living, dead, never living, food chain, food sources, habitat,
microhabitat, depend, survive

Disciplinary Concepts

- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers

Enquiry type to cover and enquiry suggestion

Comparative and fair testing (enquiry type)
Does the amount of light affect how many woodlice move around?

Learning Milestones /Assessment

- I can...
- Identify the seven life processes (MRS GREN)
 - Explain what vertebrates and invertebrates are.
 - Use a classification key to identify living things.
 - Write questions for my own classification key.