



Sing for Your School 2

Wild Open Spaces

SCIENCE LESSON IDEAS

Year 1

Areas Of Study

- Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
- Identify and name a variety of common animals that are carnivores, herbivores and omnivores
- Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)
- Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should understand how to take care of animals taken from their local environment and the need to return them safely after study. Pupils should become familiar with the common names of some fish, amphibians, reptiles, birds and mammals, including those that are kept as pets.
- Observe changes across the four seasons

Lesson Ideas

- Wild Walk –
 - Spotting sheets,
 - Drawing/tracing leaf/bark/tree patterns
 - Mini-beast hunt
 - How many mini-beasts live in and around your Wild Open Space?
 - Use these ideas to write your song – what are the animals doing? How do they move?

Year 2

Areas Of Study

- Explore and compare the differences between things that are living, dead, and things that have never been alive
- Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other
- Identify and name a variety of plants and animals in their habitats, including microhabitats
- Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food
- They should raise and answer questions about the local environment that help them to identify and study a variety of plants and animals within their habitat and observe how living things depend on each other, for example, plants serving as a source of food and shelter for animals.
- Pupils should compare animals in familiar habitats with animals found in less familiar habitats, for example, on the seashore, in woodland, in the ocean, in the rainforest.

Lesson Ideas

- Wildlife walk –
 - What can you find in and around your Wild Open Space?
 - Identify different habitats –
 - What could live here? Why is it a good place?
 - What could the class do to support the habitat?
- Draw Pictures of the different plants and animals
- Have a plant treasure hunt –
 - Follow the clues to find all the different types of tree/plants in the Wild Open Space

Year 3

Areas Of Study

- **Plants**
- Pupils should be taught to:
- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
- Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
- Investigate the way in which water is transported within plants
- Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal
- **Animals, including humans**
- Pupils should be taught to:
- Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat
- Identify that humans and some other animals have skeletons and muscles for support, protection and movement

Lesson Ideas

- Drawing different leaves and flowers and identifying them.
 - What makes them different?
 - Why do they grow where they are growing?
- Explore the Open Space
 - Could we help to make it better?
 - How do the plants get water etc?
- Animal and plant treasure hunt
 - Can the pupils find all the animals by their descriptions?
 - Or can they find the animals and write a treasure hunt for younger pupils?
- Use the word banks made for the treasure hunts to form a basis for the verse or chorus of the song.

Year 4

Areas Of Study

- **Living things and their habitats**
- Pupils should be taught to:
- 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
- **Animals, including humans**
- Pupils should be taught to:
- Construct and interpret a variety of food chains, identifying producers, predators and prey

Lesson Ideas

- Wild beast hunt –
 - Record the different animals and plants in your Wild Open Space.
 - Take photos, on return to classroom look at ways these can be grouped and why.
- Environment
 - Look at the environment around the Wild Open Space
 - What is good or bad?
 - What can the class do to make it better?
- Discuss the different sounds the class heard when outside – make a word and rhyme bank for the different words and sounds – use them as a basis for the verse and chorus of the song.

Year 5

Areas Of Study

- **Living things and their habitats**
- Pupils should be taught to:
- Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- Describe the life process of reproduction in some plants and animals

Lesson Ideas

- Animal and plant safari –
 - List and draw all the animal and plants you can find.
 - Where do they live and why
- Habitats hideaways –
 - How many habitats can you find and identify in the Wild Open Space?
 - Could the class create any to make it better?
- Life cycle art work
 - Create an artwork out of a lifecycle
 - Use different materials from the Wild Open Space in the creation
 - Use different colours to describe the temperature and location of the habitat
- Make a words and picture bank to help the creation of the verse and chorus of the song.

Year 6

Areas Of Study

- **Living things and their habitats**
- Pupils should be taught to:
- Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals
- Give reasons for classifying plants and animals based on specific characteristics

Lesson Ideas

- Wild Open Space design – If you could design a Wild Open Space in or near to the school what would it look like?
 - Design, cost it out, draw designs etc.
 - Do a presentation to the class
- Design and make a mini beast hotel
 - How can you support the wild life in the Wild Open Space?
 - What do they need / what can you do to improve it?
- Wild animal hunt.
 - What lives there?
 - What does it look like?
 - Draw a detailed picture of the creature and its habitat.
- Pupils to come up with amazing lists