

Year 1 Scheme of Learning: Science

Year 1 – All year – Seasonal changes

Lesson 1	
Learning Objective	To understand what it is like in Autumn.
Declarative Knowledge	- I can name the 4 seasons. - In the Autumn, it is usually cold and rainy. - In the Autumn, the leaves change colour to yellow and red. - Autumn is in September, October and November.
Procedural Knowledge	Identifying and classifying
Key Vocabulary	Leaves, cold, rain, colourful, pumpkins

Lesson 2	
Learning Objective	To understand what it is like in Winter.
Declarative Knowledge	- I can name the 4 seasons. - In the Winter, it is usually cold, rainy and snowy. - In the Winter, the leaves have fallen off the trees. - Winter is in December, January and February.
Procedural Knowledge	Identifying and classifying
Key Vocabulary	Trees, cold, snow, ice

Lesson 3	
Learning Objective	To understand what it is like in Spring.
Declarative Knowledge	- I can name the 4 seasons. - In the Spring, it is usually starting to get warmer and sunnier. - In the Spring, the leaves start to grow back. - Spring is in March, April and May.
Procedural Knowledge	Identifying and classifying
Key Vocabulary	Leaves, green, warm, sunny

Lesson 4	
Learning Objective	To understand what it is like in Summer.
Declarative Knowledge	- I can name the 4 seasons. - In the Summer, it is usually hot and dry. - In the Summer, the leaves are fully grown and you see lots of animals and insects. - Summer is in June, July and August.
Procedural Knowledge	Identifying and classifying
Key Vocabulary	Leaves, sunny, hot, dry, animals, fruit

Year 1 – Spring 2 – Plants

Lesson 1	
Learning Objective	To identify trees and plants in the local area.
Declarative Knowledge	- Growing locally there will be a vast array of plants which all have specific names. - I can name some trees in the local area.
Procedural Knowledge	Identifying and classifying.
Key Vocabulary	Tree, types of plants in the area.

Lesson 2	
Learning Objective	To describe the key features of the local trees and plants.
Declarative Knowledge	- Trees and plants can be identified by looking at the key characteristics of the plant. - I can identify features of the trees e.g. leaves, colours, size.
Procedural Knowledge	Identifying and classifying.
Key Vocabulary	Leaves, green, brown, branch, fruit, bark.

Lesson 3	
Learning Objective	To identify the main parts of plants.
Declarative Knowledge	- Plants have common parts but they vary between the different types of plants. - I can name the main parts of a plant. (Do not need to know functions).
Procedural Knowledge	Identifying and classifying.
Key Vocabulary	Leaf, flower, petal, stem, stalk.

Lesson 4	
Learning Objective	To recognise that some trees lose their leaves and others keep them all year.
Declarative Knowledge	- Some trees keep their leaves all year. - Other trees drop their leaves during autumn and grow them again during spring.
Procedural Knowledge	Making observations.
Key Vocabulary	Trees, leaves, grow, evergreen.

Lesson 5	
Learning Objective	To group plants based on their features.
Declarative Knowledge	- Plants have common parts but they vary between the different types of plants. - I can name some features of different plants.
Procedural Knowledge	Identifying and classifying.
Key Vocabulary	Leaf, flower, petals, fruit, berry, seeds, colours.

Lesson 6	
Learning Objective	To compare and contrast different types of seeds.
Declarative Knowledge	- Seeds grow into plants. - Different plants have different seeds.
Procedural Knowledge	Making observations.
Key Vocabulary	Seeds, types of seeds (sunflower, pumpkin) , hard, soft, flat, round, big, small.

Year 1 – Summer 1 – Animals inc. Humans

Lesson 1	
Learning Objective	To name different features that animals have.
Declarative Knowledge	- Animals vary in many ways having different structures e.g. wings, tails, ears etc. - They also have different skin coverings e.g. scales, feathers, hair.
Procedural Knowledge	Making observations.
Key Vocabulary	Head, body, legs, wings, claw, fin, scales, feathers, fur, beak, paws.

Lesson 2	
Learning Objective	To use features to identify a range of animals.
Declarative Knowledge	- Their key features can be used to identify them. - I can identify a range of simple animals using their features. (Chn do not need to know animal groups e.g. mammals, reptiles).
Procedural Knowledge	Identifying and classifying.
Key Vocabulary	Name of animals experienced first-hand, feature words from previous lesson.

Lesson 3	
Learning Objective	To understand that animals eat a variety of foods.
Declarative Knowledge	- Animals eat certain things - some eat other animals, some eat plants, some eat both plants and animals. (Chn do not need to know the dietary words e.g. carnivore, herbivore).
Procedural Knowledge	Communicating ideas.
Key Vocabulary	Meat, animals, plants, diet.

Lesson 4	
Learning Objective	To identify the basic parts of the human body.
Declarative Knowledge	- Humans have keys parts in common, but these vary from person to person.
Procedural Knowledge	Making observations.
Key Vocabulary	Arms, legs, fingers, skin, head, eyes, ears, nose, tongue.

Lesson 5	
Learning Objective	To name the five senses and understand what they are.
Declarative Knowledge	- Humans (and other animals) find out about the world using their senses. - Humans have five senses – sight, touch, taste, hearing and smelling. - These senses are linked to particular parts of the body.
Procedural Knowledge	Communicating learning.
Key Vocabulary	Smell, see, touch, , taste, hear, senses.

Year 1– Summer 2 – Materials

Lesson 1	
Learning Objective	To name different materials.
Declarative Knowledge	- All objects are made of one or more materials. - I can name some different materials of objects I have experienced.
Procedural Knowledge	Making observations.
Key Vocabulary	Plastic, wood, glass, metal, water, rock, paper, fabric.

Lesson 2	
Learning Objective	To distinguish between the object & the material.
Declarative Knowledge	- All objects are made of one or more materials. - Some objects can be made from different materials e.g. plastic, metal or wooden spoons.
Procedural Knowledge	Identifying and classifying.
Key Vocabulary	Object, material, types of material, types of object.

Lesson 3	
Learning Objective	To describe the properties of materials.
Declarative Knowledge	- Materials can be described by their properties e.g. shiny, stretchy, rough etc. - I can name the properties of some materials.
Procedural Knowledge	Communicating ideas.
Key Vocabulary	Shiny, stretchy, rough, hard, soft, bendy, floppy, dull.

Lesson 4	
Learning Objective	To describe the physical properties by testing objects.
Declarative Knowledge	- Some materials are used for different functions. - I can name materials that are waterproof.
Procedural Knowledge	Making observations.
Key Vocabulary	Waterproof, wet, dry, absorbent.

Lesson 5	
Learning Objective	To test the strength of different materials.
Declarative Knowledge	- Some materials are used for different functions. - I can compare the strength of materials.
Procedural Knowledge	Making observations.
Key Vocabulary	Strong, weak, floppy, stiff, hard, soft.

Lesson 6	
Learning Objective	To sort objects by their properties.
Declarative Knowledge	- Materials can be grouped together based on their properties. - I can put materials into groups based on their similar properties.
Procedural Knowledge	Identifying and classifying.
Key Vocabulary	Group, similar, properties, different property words.