

Year 1 Science Knowledge Organiser

Autumn 1



Theme: Seasonal Changes and Everyday Materials

Key Knowledge and Skills

By the end of this unit pupils will..

Seasonal changes

There are 4 seasons each year; Autumn, Winter, Spring and Summer. In Autumn, the weather begins to get cooler, the leaves start to fall from the trees and change colour. The amount of daylight becomes less. This means the daytimes are shorter and night times are longer. Autumn is made up of the months September, October and November. Children will be visiting Ecclesall Woods to observe the seasonal changes they have learnt about.

Materials

Children will be able to distinguish between an object and materials. An object is a thing that can be used such as a chair, car or door. The material is what the object is made from such as glass, wood and plastic. Every material has a set of properties (e.g. glass is transparent and not absorbent). Children will investigate these properties to create a suitable shelter for the Gruffalo, giving reasons for their choices for example selecting a plastic roof as it is waterproof.

Key Vocabulary



Key Vocabulary	
object	A thing that can be used. For example a door, chair, car, table are all objects .
material	Materials are what an object is made from.
hard	Not easily broken or bent.
soft	If something is soft , it is easy to cut, fold or change the shape of.
stretchy	Can be pulled to make it longer or wider without breaking.
shiny	Reflects light easily.
dull	Doesn't reflect light. Doesn't look bright or shiny .
rough	If something is rough , it feels and looks uneven or bumpy.

Working Scientifically

	<ul style="list-style-type: none"> » Ask questions. » Recognise when identifying and classifying will help me answer my questions. » Use secondary sources to identify and classify things. » Look for similarities and make comparisons.
	<ul style="list-style-type: none"> » Ask questions. » Make careful observations. » Use scientific language. » Draw and label what you observe. » Use observations to suggest answers to questions. » Talk about and explain observations using scientific knowledge and understanding. » Observing over Time
	<ul style="list-style-type: none"> » Ask questions and find different ways to answer them. » Use scientific language. » Use equipment to make observations » Make careful observations. » Talk about findings. » Make simple conclusions.

Key Vocabulary	
smooth	Smooth objects have no lumps or bumps.
bendy	Bendy things can be bent easily into a curved or folded shape.
not bendy	If something is not bendy , it can't be bent easily into a curved or folded shape.
waterproof	If something is waterproof , it keeps water out. It keeps things dry.
not waterproof	Not waterproof materials let water in.
absorbent	If something is absorbent , it soaks liquid up.
not absorbent	If something is not absorbent , it does not soak up liquid.
transparent	Transparent objects can be seen through.
opaque	Opaque objects can't be seen through.



