



KS1 Science

PROGRESSION GRID - KNOWLEDGE AND UNDERSTANDING

YR	Plants (Year 1,2)	Living things & their habitats (Year 1,2)	Animals, including humans (Year 1,2)	Everyday materials (Year 1, 2)	Seasonal changes (Year 1)
3	<p>identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</p> <p>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</p> <p>find out and describe how plants need water, light and a suitable temperature to grow and stay healthy</p>	<p>recognise that living things can be grouped in a variety of ways</p> <p>identify and name a variety of plants and animals in their habitats, including microhabitats</p> <p>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</p>	<p>describe the simple functions of the basic parts of the digestive system in humans</p> <p>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</p> <p>find out about and describe the basic needs of animals, including humans, for survival (water, food and air)</p> <p>describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene</p>	<p>identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</p> <p>find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching</p> <p>Explain why materials are used for specific purposes (glass, copper wiring)</p>	<p>Describe environmental changes linked to the weather</p> <p>Explain the changes of the seasons over the year</p> <p>Explain features of extreme weather</p> <p>Explain changes to the pattern of plants and animals (hibernation, loss of leaves ..)</p> <p>Simple recording of day length over time</p> <p>Interpret how day length changes through the year</p>
2	<p>observe and describe how seeds and bulbs grow into mature plants</p>	<p>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</p> <p>animals, including humans, move, feed, grow, use their senses and reproduce</p> <p>Describe basic conditions for life; food, water, air.</p>	<p>notice that animals, including humans, have offspring which grow into adults</p> <p>describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)</p> <p>identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense</p>	<p>describe the simple physical properties of a variety of everyday materials</p> <p>compare and group together a variety of everyday materials on the basis of their simple physical properties</p> <p>Sort objects into groups on the basis of simple material properties</p> <p>Identify similarities/differences between materials.</p> <p>To sort materials on basis of properties.</p>	<p>observe and describe weather associated with the seasons and how day length varies</p> <p>observe changes across the 4 seasons</p> <p>Describe key features of the seasons - summer (hot), winter (cold, snow)</p> <p>Describe observations of plants and animals - changes over the seasons</p> <p>Describe the features of weather: rain, Windy, hot, cold</p> <p>Describe examples of extreme weather</p> <p>Duration of the day/night has a length and measured in hours/seconds, sunrise and sunset</p> <p>Observe/record day length during the year</p>
1	<p>identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</p> <p>identify and describe the basic structure of a variety of common flowering plants, including trees</p> <p>Observe and recognise familiar plants e.g. tree, flower</p> <p>Name the main external parts of a flowering plant</p>	<p>explore and compare the differences between things that are living, dead, and things that have never been alive</p>	<p>identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</p> <p>identify and name a variety of common animals that are carnivores, herbivores and omnivores</p>	<p>distinguish between an object and the material from which it is made</p> <p>identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock</p> <p>describe materials using their senses - appearance colour/size, texture</p>	<p>Recognise the four seasons: summer, autumn, winter, spring</p> <p>Observe and make some recordings of changes in the seasons over the year</p> <p>Observe changes over the year in plants and animals</p> <p>Identify simple weather - rain, snow, sun, windy</p> <p>Recognise day, night, sunrise and sunset</p> <p>Recognise that the day is due to the sun, night due to the absence of the sun</p>