



St. Paul and St. Timothy's Catholic Infant School

Progression Ladder for Science

	RECEPTION
Working Scientifically	Understanding the world- Make observations of plants and animals. Record and talk about basic observations in a simple way (mark make, photographs, drawing). Communication and language – Answer basic how and why questions about their experiences.
Biology - Animals including humans	Understanding the world- Children make observations of animals. Children to name farm, wild animals, pets and mini-beasts. Children will learn the names of some animals and their young. Children will learn about the rock-pool habitat. Physical development– Talk about how to keep healthy and safe. Name simple body parts.
Biology - Plants	Understanding the world- Children will make observations of plants. Children to know a tree is a plant, they will be able to talk about the differences of trees, plants and their flowers. Children will discuss the different leaves. (Children identify and name some plants in the local environment on the school site).
Chemistry - Everyday Materials	Understanding the world- Children will learn about the similarities and differences in relation to materials and living things.
Physics - Seasonal Changes	Understanding the world- Name the four seasons and observe changes in weather.

	YEAR 1
Working Scientifically	Ask simple questions, recognise their questions can be answered in different ways. Observe closely, gather data in a number of ways. Classify and identify animals and materials. Record data in a number of ways. Use observations and ideas to answer questions.
Biology - Animals including humans	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. Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with which sense. (Discuss animals that hibernate and migrate. Learn the collective nouns for animals c.c. English)
Biology - Plants	Identify and name a variety of common, wild and garden plants including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants including trees. (Children identify, name and compare plants found along the River Alt).
Chemistry - Everyday Materials	Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials including wood, plastic, metal, glass, water and rock. Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials from the basis of their simple physical properties.
Physics - Seasonal Changes	Observe changes across the four seasons. Observe and describe weather associated with seasons and how day length varies.

	YEAR 2
Working Scientifically	Ask simple questions, recognise their questions can be answered in different ways. Observe closely, gather data in a number of ways. Classify and identify animals and materials. Record data in a number of ways. Use observations and ideas to answer questions.
Biology - Animals including humans	Notice that animals including humans have offspring which grow into adults. Find out about and describe the basic needs of animals including humans for survival. Describe the importance for humans of exercise including eating the right amounts of different types of food and hygiene.
Biology - Plants	Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and suitable temperature to grow and stay healthy.
Biology - Living things and their habitats	Explore and compare the differences between things that are living, dead and never lived. Identify that most things live in habitats of which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants. Identify and name a variety of plants and animals in their habitats. Describe how animals obtain food from plants and other animals.
Chemistry - Uses of everyday materials	Identify and compare the suitability of a variety of everyday materials including wood, plastic, metal, glass, water, paper, cardboard and rock. Find out how the shape of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

Reception information is taken from the Early Learning Goals within Development Matters. Those that are underlined are the 'Exceeding' statements.

Brackets contain additional information or detail on which to focus. Seeing it through a local lens.