Grimsargh St Michael's CE Primary School
Science progression of knowledge- KS1 (themes/topics/units)

This progression of knowledge/skills document details how each key topic develops sequentially in Science throughout school. (Please refer to KLIPS documents for notes and non–statutory guidance which supplements each area and links units to the relevant working scientifically areas).

Areas of study	**EYFS**	
Understanding the World	Talk about members of their immediate family and community. Name and describe people who are familiar to them. Comment on images of familiar situations in the past. Compare and contrast characters from stories, including figures from the past. Draw information from a simple map. Understand that some places are special to members of their community. Recognise that people have different beliefs and celebrate special times in different ways. Recognise some similarities and differences between life in this country and life in other countries. Explore the natural world around them. Describe what they see, hear and feel whilst outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them.	
	Year 1	**Year 2**
Seasonal Changes (Nature Journal)	Learning can be done throughout the year using the school and the local environment. For example plants can be observed to make a linked to seasonal change and weather at various different times. Materials could be linked to a different creative theme throughout the year. Key learning can also be covered as a blocked science unit in its own right to introduce or consolidate learning at other times.	There should be plenty of opportunities throughout the year for children to use the school/local environment to observe plant growth, changes in habitats across the seasons and life cycles of a variety of different animals (for example: chicks/other birds, tadpoles/frogs, caterpillars/butterflies, other mini-beasts, other young animals during trips to farms/zoos). This could be done through an ongoing/monthly nature journal to observe, record and review over a period of time. The unit of work on 'Animal survival and growth' can be covered in the same half term as work on 'Habitats' in order to link the concept of survival.
Animals Including Humans	Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Recognise that humans are animals. Compare and describe differences in their own features (eye, hair, skin colour, etc.). Recognise that humans have many similarities.	Notice that animals have offspring which grow into adults. Find out about and describe the basic needs of animals, for survival (water, food and air).

Health – how we grow and stay healthy		Notice that humans have offspring which grow into adults. Find out about and describe the basic needs of humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Medicines can be useful when we are ill. Medicines can be harmful if not used properly.
Materials (properties of)	Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties.	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching Some materials can be found naturally; others have to be made.
Environment Living Things and Their Habitats (Animals – other animals) **Observing life cycles**	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, and including pets). Find out and describe how animals look different to one another. Group together animals according to their different features. Recognise similarities between animals: Structure: head, body, way of moving, senses, body covering, tail. Animals have senses to explore the world around them and to help them to survive. Recognise that animals need to be treated with care and sensitivity to keep them alive and healthy. Animals are alive; they move, feed, grow, use their senses and reproduce.	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 micro-habitats. 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. Different kinds of plants and animals live in different kinds of places. There are different kinds of habitat near school which need to be cared for Habitats provide the preferred conditions for the animals/plants that live there (compare local habitats and less familiar examples).
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.	Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Plants are living and eventually die.