St Joseph's RCP- Whole School Science LTP 2021-2022

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	**Seasonal changes- Observe the weather and changes across the seasons** **The world around us** **Animals- Habitats** **Class Scientist (Materials) - Who is he?**	**Seasonal changes- Observe the weather and changes across the seasons** **The world around us** **Animals- Habitats** **Class Scientist (Materials) - Who is he?**	**Seasonal changes- Observe the weather and changes across the seasons** **The world around us** **Animals- Life cycle** **Class Scientist (Materials) - What else do we know?**	**Seasonal changes- Observe the weather and changes across the seasons** **The world around us** **Plants- Life Cycle** **Famous Scientist**	**Seasonal changes- Observe the weather and changes across the seasons** **The world around us** **Gardening and Growing Seeds/Bulbs** **We are Scientists**	**Seasonal changes- Observe the weather and changes across the seasons** **The world around us** **Gardening and Growing Seeds/Bulbs** **We are scientists**
Year 1	**Seasonal Changes -** Observe weather and changes across seasons **Working like a Scientist**	**Seasonal Changes -** Observe weather and changes across seasons **Working scientifically**	**Seasonal Changes-** Observe weather and changes across seasons **Everyday Materials –** Name, describe and sort everyday materials.	**Seasonal Changes-** Observe weather and changes across seasons **Animals including humans -**	**Seasonal Changes -** Observe weather and changes across seasons **Plants -** Name basic parts— identify common plants	**Seasonal Changes -** Observe weather and changes across seasons **Animals including humans – Animals** Name common animals. Name carnivores, herbivores, omnivores
Year 2	**Living things and their habitats -** Living and dead. Describe habitats. Basic food chains	**Animals including humans -** Animals have offspring. Basic needs for survival. Importance of exercise, food and hygiene	**Working scientifically.**	**Plants -** Seeds/bulbs grow into plants. What plants need.	**Working scientifically.**	**Materials -** Uses of materials. Changing shape of materials.
Year 3	**Working Scientifically**.	**Forces and Magnets** Magnetic forces, attraction and	**Animals including humans** Nutrition and healthy eating. Skeletons and	**Rocks** Compare physical properties of rocks. Fossil formation. Soils.	**Plants** Functions of different parts of plants. Water transportation. Plant life cycle.	**Light** Light reflection. Sun protection. Patterns in shadows.

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		repulsion. Magnetic poles. Forces.	muscles			
Year 4	**Working scientifically**	**Animals including humans -** Basic functions of digestive system. Teeth. Food chains	**States of Matter -** Solids, liquids and gases. Changes of state. Evaporation/ Condensation. Water cycle.	**Electricity -** Simple circuits. Switches. Conductors and insulators	**Sound -** How sound is made and travels. Pitch and volume	**Living things and their habitats -** Group living things. Use classification keys. Change in environment can threaten life
Year 5	**Working Scientifically**		**Living things and their habitats** Life cycles. Reproduction in plants and animals. .		**Forces** Gravity. Air resistance, water resisitance and friction. Mechanisms, levers, pulleys and gears.	
	Earth and Space Describe the movement of the Earth, moon and other planets. Day and night		**Animals including humans** Changes in humans.		**Properties and Changes of materials** Properties of materials. Dissolvable materials. Separating mixtures. Reversible and irreversible changes.	
Year 6	**Animals including humans – circulatory system** Heart, blood vessels and blood. Diet, exercise, drugs and lifestyle.	**Living things and their habitats** Classifying microorganisms, plants and animals.	**Light and sound** Circuit symbols. Variations in components due to the number of components in a circuit.	**Evolution and inheritance** Fossils. Animal adaptations and evolution. Inherited characteristics.	**Electricity**	**Consolidation, investigations and preparating for KS3** **Working scientifically**