The St Joseph and St Bede Science Learning Journey Progression of Skills Continue your lifelong love of **Put YOUR** learning and personal perfect your Talents in the iournev so far development through High learning skills **SPOTLIGHT** YEAR Continue to make a School and beyond positive contribution to **British and Global** Society Know how simple optical instruments Know and work - periscope, demonstrate telescope, how we see binoculars, mirror objects. and magnifying glass. Know how the earth Know how animals Know the impact of and living things have and plants have **Explain** evolution light travels. adapted to suit their Know the function of diet, lifestyle, drugs changed over time. and be able to link the heart, blood and and exercise on environment. it to adaptation. Know that the blood vessels. health. number and voltage of cells in a circuit link to the brightness of a bulb or volume of a buzzer. Draw circuit Identify and diagrams using the Compare and explain Know how Know how fossils can Know how living Know about name the parts of correct symbols. nutrients and things have been be used to find out reproduction and why components the circulatory Describe the sun. water are offspring. work and do not classified. Give about the past. system. reasons for classifying work in a circuit. earth and moon. transported in Explain the Demonstrate how animals and in a certain way. movement of night and day are humans. the moon Compare and group created. relative to the materials based on their Know that some changes Know how some earth. properties, transparency, Know about the Know the life cycle of different result in a new material materials can be solubility, conductivity and movement of the and this is usually living things, mammals, birds, separated - sieving, planets in relation to response to magnets. irreversible. amphibians and insects. filtering. Explain how levers, pulleys and gears allow a smaller force to have a greater effect. Know and Know the stages Know the process of Know how a material Know what gravity is. demonstrate that of growth in reproduction in plants and dissolves to form a solution Know the Know the effect of air some changes are humans. animals. difference and water resistance. and how to recover a reversible and some substance from a solution. between a Identify the effect of are not. Know the function conductor friction. of a switch and insulator. Construct Know that dark is the Explain the absence of light. Know Identify and name food chains to Construct a the parts of the that light is needed to see identify difference between series circuit Compare and group **Group materials** and is reflected from a human digestive producers, igneous, and name the Know how soil is made rocks based on their based on their predators and surface. Know how a system and know metamorphic and componentsand how fossils are properties. state of matter their functions shadow is formed. prey. sedimentary rock. formed. YEAR Identify appliances that require electricity. Know the plant life cycle Can explain the water Know about the Know how changes Know about Identify and know the Know how Describe how objects Know how some forces skeleton and to an environment changes of matter different types of human water is need contact and move on different muscular system could endanger and the teeth and their functions. transported surfaces. others do not. Know a human. temperatures at living things how magnets attract within which they change. and repel. plants Know how nutrients. Know why exercise, Classify Working water and Know that a a good diet and things as Scientifically Match living things Know what plants oxygen are material may or being living, good hygiene are to their habitats. need to grow and transported may not be used important for dead or Use around a body. stay healthy for a specific job. never lived. humans equipment **YEAR** such as Know about thermometers**YEAR** and rain the importance gauges. Know of a nutritious diet. how to setup a fair test. Classify and Know how a specific Work towards Know that materials Know and explain how Know the basic stages of a group things habitat covers the my SATS can be changed by seeds and bulbs grow life cycle for animals. based on a basic needs of the bending, squashing, in to plants. criteria. Draw things living there. twisting and conclusions stretching. from fair tests and explain **Working Scientifically Y1.** what you have Know how to sort discovered. Explain what has been Set up a test to see Know and name a by living and non Name the seasons and learned from an Use measures Know the petal, stem, Know the name of which material living things variety of know about the type to find out investigation and draw leaves and root of a materials that an keep things the common wild and of weather in each more about conclusions object is made of. garden plants. warmest. season. investigations. Know and classify animals by what they eat (carnivore) Ask questions such as – Know how to classify Use measure Know about the Know the root, trunk, a range of animals. Why are flowers within properties of branches and leaves of a Name the parts of different colours? Why investigations everyday the human body tree. do some animals eat materials. that can be seen meat and others do not? YEAR Explore, problem solve, observe, predict, think, make decisi **Enroll in Reception** Develop a thirst ons and talk about the world around them. for learning in our Nursery Respond **EYFS** to questions about what they think will happen to help the m communicate, plan, investi

Dream 🕡

Build a solid

foundation in

education based on

areas of provision

gate, record and evaluate find

ings.

Children will

explore creatures, peopl

e, plants and objects in t

heir natural environme

nts. They will observe a

nd manipulate objects a nd materials to identify differences and similariti es. Take part in

assemblies,

Week

whole school

science events -

such as Science

Outdoor provision and

practical play deepens

understanding of the world

outdoor learning experiences

Stay and play

sessions and

Meet our

Nursery staff

through home