## 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 development through High journey so far 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 the impact of and living things have and plants have **Explain** evolution light travels. Know the function of diet, lifestyle, drugs adapted to suit their changed over time. and be able to link environment. the heart, blood and and exercise on 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 Know how living Know how Compare and explain Know how fossils can Know about name the parts of correct symbols. nutrients and be used to find out reproduction and why components things have been 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 result in a new material Know the life cycle of different 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, pullevs and gears allow a smaller force to have a greater effect. Know and Know the stages Know the process of Know what gravity is. Know how a material 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** igneous. and is reflected from a human digestive producers, 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 changes of matter to an environment different types of human need contact and water is 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 within how magnets attract 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 Match living things Scientifically Know what plants oxygen are material may or being living, good hygiene are to their habitats. <u>Y2</u> need to grow and transported may not be used dead or important for Use stav healthy around a body. 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 Know the name of learned from an Use measures Know the petal, stem, 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 Know how to classify Ask questions such as -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 investigationseveryday 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

Dream @

Build a solid

foundation in

education based on

areas of provision

think will happen to help the m communicate, plan, investi 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

Meet our

visits

Nursery staff

through home

Stay and play

sessions and

experiences

outdoor learning