St John's CE Middle School
Key Performance Indicators

KS2 Year 5 Science

Biology

Plants
Describe the signs of plant reproduction around school
Explain how we can grow plants without seeds
Describe how plants are grown across the year
Describe factors that may affect crop production
Life Cycles
Identify common features/differences in animal life cycles
* Identify common characteristics of mammals, amphibians, birds and insects*
Provide examples of how humans help endangered species
Reproduction
Label the parts of a flowering plant and describe the processes of pollination and fertilisation in plants
Describe asexual reproduction in plants
Identify similarities and differences in the process of reproduction in mammals, amphibians, birds and insects
Identify the main stages in human life cycles and the process of puberty in boys and girls

Chemistry

Materials
Are able to group materials based on their properties
Provide examples of the properties of solids
Describe how to test the viscosity of liquids
Describe the properties of metals and plastics
Everyday Materials

Plan and investigate a fair test on plastic carrier bags
Explain how a cool bag affects temperature of food
Describe materials and properties in making bikes
All Changes
Can describe reversible & irreversible reactions
Describe how a candle does both reversible & irreversible reactions
Plan an investigation between Vitamin C tablets and water
Describe the changes occurring when making toffee

Physics

Forces
Use a newton meter correctly
Describe how forces make things change directions and use force arrows correctly
Plan an investigation using parachutes to include a prediction
Describe water resistance and upthrust correctly
Describe how to use levers, pulleys and gears to move objects
The Earth and Beyond
Describe how shadows are formed
Describe how seasons occur throughout the year
Describe the phases of the moon