



# St John's CE Middle School

## Key Performance Indicators

*Pupils who are working at age related expectations at the end of the year will have a secure knowledge of these Key Performance Indicators.*

### KS2 Year 6 Science

#### Biology

<b>Nature Library</b>
*Describe the life cycles of butterflies*
*Describe the behaviour of invertebrates in their habitats*
*Describe how classification works*
*Describe the key features of vertebrates*
*Describe the key features of invertebrates*
*Describe the features of the 3 Kingdoms: Fungi, Bacteria and Protista*
<b>The Body</b>
*Identify the main parts of the circulatory system and the heart*
*Describe the functions of the heart*
*Describe the different blood vessels in body and what they transport throughout the body*
*Describe the four main food groups*
*Are able to take their pulse rate and collect data on the effect of exercise on their pulse rate*
*Describe how exercise forms part of a healthy lifestyle*
*Describe the effects of drugs and smoking on our health*
<b>Everything Changes</b>
*Describe the advantages and disadvantages of selective breeding of food*
*Describe how living things are adapted to their environment*
*Describe why living things become extinct*
*Explain how fossils are used to look into the past*
*Describe natural selection*

#### Chemistry

##### Marvellous Mixtures

*Describe the effect of dissolving, evaporating & condensing on separating solutions*
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*Write a method of how to separate pure salt from a rock salt mixture*
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*Describe what happens when oil and lemonade mix*
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## Physics

<b>Electricity</b>
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*Make simple Circuits*
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*Explain the role of electrons in circuits and how resistance occurs*
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*Identify electrical symbols*
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*Can construct a burglar alarm*
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<b>Light</b>
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*Create a model to explain how light travels*
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*Describe how a pinhole camera works*
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*Investigate how different variables affect shadow sizes; and then describe how they form*
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*Draw a labelled ray diagram explaining $i=r$ *
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*Explain what happens when light travels through a lens*
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*Explain why a prism forms a spectrum and how secondary colours are formed*
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