



Stocksbridge Junior School Science Concepts

“The important thing is to never stop questioning.”

Albert Einstein

SJS Science Concepts

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| <p>Concept 1:</p> | <p>Scientific Enquiry</p> <ul style="list-style-type: none"> • Comparative/Fair testing – Carrying out fair tests to see the effect of a changing variable. • Research – Using secondary sources of information to answer questions. • Observation over time – Observe changes that occur over a period of time (minutes to months). • Pattern-seeking – Identifying patterns and looking for relationships in enquires. • Identifying, grouping and classifying – Identifying patterns and looking for relationships in enquires. • Problem Solving – Applying scientific knowledge to find answers to problems. |
| <p>Concept 2:</p> | <p>Biology</p> <ul style="list-style-type: none"> • Understand plants – This concept involves becoming familiar with different types of plants, their structure and reproduction. • Understand animals and humans – This concept involves becoming familiar with different types of animals, humans and the life processes they share. • Investigate living things – This concept involves becoming familiar with a wider range of living things, including insects and understanding life processes. • Understand evolution and inheritance – This concept involves understanding that organisms come into existence, adapt, change and evolve and become extinct. |
| <p>Concept 3:</p> | <p>Chemistry</p> <ul style="list-style-type: none"> • Investigate materials – This concept involves becoming familiar with a range of materials, their properties, uses and how they may be altered or changed. |
| <p>Concept 4:</p> | <p>Physics</p> <ul style="list-style-type: none"> • Understand movement, forces and magnets – This concept involves understanding what causes motion. • Understand the Earth’s movement in space – This concept involves understanding what causes seasonal changes, day and night. • Investigate light and seeing – This concept involves understanding how light and reflection affect sight. • Investigate sound and hearing – This concept involves understanding how sound is produced, how it travels and how it is heard. • Understand electrical circuits – This concept involves understanding circuits and their role in electrical applications. |