



St John the Evangelist Science Curriculum End Points



| Year Group | Scientific Thread | Curriculum End Points |
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| EYFS | Complex Systems | Observe animals and plants in the natural world. Notice similarities and differences between living things. |
| | Energy | Observe changes in the natural world (seasons, weather). Observe natural changes linked to energy (sunlight, warmth). |
| | The Earth | Notice differences between environments. Observe seasonal changes. |
| | Particle Theory | Explore simple changes of state (melting, freezing). |
| | Forces | Explore pushes, pulls and movement in play. |
| Year 1 | Complex Systems | Identify and name common animals. Describe and compare animal body structures. Identify basic parts of the human body. |
| | Energy | Identify animals such as carnivores, herbivores and omnivores (energy sources). Recognise light sources and simple electrical appliances. |
| | The Earth | Recognise day and night. |
| | Particle Theory | Distinguish between objects and materials. Identify and describe everyday materials. |
| | Forces | Recognise simple forces (push/pull). |
| Year 2 | Complex Systems | Describe the importance of exercise, hygiene and diet. Compare living things in habitats and simple food chains. Describe basic plant needs and growth. |
| | Energy | Understand that animals get energy from food. Describe simple food chains. Recognise that electricity and light help us in daily life. |
| | The Earth | Observe weather patterns and seasonal changes. Compare habitats. |
| | Particle Theory | Group materials by properties and suitability. Observe heating and cooling (water cycle links). |
| | Forces | Identify magnetic and non-magnetic materials. |
| Year 3 | Complex Systems | Identify and describe functions of plant parts. Describe the human digestive system. |

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| | | Recognise skeletons and muscles in animals and humans. |
| | Energy | Understand that plants make their own food and transport nutrients. Describe how the digestive system extracts energy. Explore light, reflection and shadows. Explore sound: pitch, volume and vibrations. |
| | The Earth | Compare and group rocks; describe fossil and soil formation. |
| | Particle Theory | Recognise solids, liquids and gases. Describe changes of state. |
| | Forces | Explore magnets and magnetic forces. |
| Year 4 | Complex Systems | Classify living things in different environments. Describe the circulatory and respiratory systems. Understand nutrition and lifestyle impacts. |
| | Energy | Explain how the circulatory system transports oxygen and nutrients. Explore how sound travels and dissipates. |
| | The Earth | Understand how environments change and can pose dangers. |
| | Particle Theory | Understand evaporation and condensation in the water cycle. |
| | Forces | Investigate contact and non-contact forces. Explore air resistance, water resistance and friction. Use levers, pulleys and gears. |
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| Year 5 | Complex Systems | Describe life cycles of plants and animals. Explain reproduction (sexual and asexual). Describe human development from embryo to old age. |
| | Energy | Understand energy transfer in life cycles and reproduction. Explain how light travels and how we see. Investigate electrical circuits and components. |
| | The Earth | Describe the movement of Earth and planets relative to the Sun. Describe the movement of the Moon relative to Earth. |
| | Particle Theory | Investigate properties of materials (solubility, conductivity, transparency). Explore reversible and irreversible changes. Separate mixtures using scientific processes. |
| | Forces | Understand gravity as a force. Investigate resistance forces in more depth. |
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| Year 6 | Complex Systems | Classify living things using standard systems. Explain the circulatory system in detail. Understand the impact of drugs, exercise and lifestyle. Explain evolution, inheritance, variation and adaptation. |
| | Energy | Explain how inherited traits and adaptations support survival (energy efficiency). Apply energy transfer ideas across light, sound, electricity and space. |
| | The Earth | Explain Earth's place in the solar system using scientific models. Understand gravity as a force acting within Earth's system. |
| | Particle Theory | Apply particle theory to explain chemical changes. |
| | Forces | Apply force concepts to explain planetary motion and physical phenomena. |