**SJC Federation Science Curriculum**

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|  | **Y1** | **Y2** | **Y3** | **Y4** | **Y5** | **Y6** |
| **Plants** | Identify and name a variety of plants and their parts. | How seeds and bulbs grow. Conditions for healthy growth. | The lifecycle of the flowering plant. Water transportation in plants. |  |  |  |
| **Animals** | Identify and name a variety of animals (inc. humans) and their parts. Understand different diets. | Basic animal lifecycles and requirements for life, including healthy living for humans. | Skeletons and muscles.  Animal nutrition. | Human digestive system and teeth.  Food chain: producers, predators and prey. | Human changes – from birth to old age. | Human circulatory system and transport of water and nutrition.  Healthy lifestyles |
| **Materials** | Identify, name, compare and group a variety of everyday materials and their properties. | The suitability of different materials for different uses.  Changing the shape of solid materials. |  |  | Solids, liquids and gases.  Reversible and irreversible changes.  The properties of materials and their uses. |  |
| **Seasonal Changes** | The seasons.  Weather.  The length of days. |  |  |  |  |  |
| **Living Things Habitats** |  | Things that are living, dead or have never been alive.  How plants and animals depend on each other and their habitats.  Food chains and food sources. |  | Classify and group living things.  Explore effects of environmental change on living things. | Lifecycles of mammals, amphibians, insects and birds.  Life processes and reporoduction of plants and animals | Classification of plans and animals. |
| **Light** |  |  | Light and dark.  Reflection.  Shadows.  The sun. |  |  | Light and sight (eyes).  Light travels in straight lines. |
| **Forces & Magnets** |  |  | Magnets.  Movement across different surfaces. |  | Gravity.  Resistance and friction.  Levers, pulleys and gears. |  |
| **Rocks** |  |  | Appearance and properties of rocks.  Fossils.  Soil. |  |  |  |
| **States of Matter** |  |  |  | Solids, liquids and gases.  Effect of temperature on states of matter.  The water cycle. |  |  |
| **Sound** |  |  |  | How sounds are made.  How sound travels.  Pitch and volume. |  |  |
| **Electricity** |  |  |  | Simple circuits.  Conductors and insulators. |  | Drawing circuits.  Effects of voltage. |
| **Earth & Space** |  |  |  |  | The solar system.  Relative movement of the Earth, Sun and Moon.  Day and night. |  |
| **Evolution** |  |  |  |  |  | Fossils as evidence.  Individual differences and inheritance.  Adaptation. |