Edward Worlledge Ormiston Academy

Science Curriculum Map

Big Questions:

Biology: What are living things and what are they made of? How do living things grow and reproduce? How do living things live together in their environment? Why are there similarities and differences between living things? How do living things stay healthy?
Physics: How do we see, hear and communicate? How does the Earth fit into the universe? Why do materials have different properties? What are things made of? How do forces make things happen? How do electricity and magnetism work?
Chemistry: How do we explain how substances behave? What are things made of? How can substances be made and changed? How can we explain changes in the air, land and oceans?
Cross curricular: How can we live sustainably to protect Earth for a better future?

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	**Naming and grouping animals** Biology: What are living things and what are they made of? How do living things grow and reproduce? How do living things live together in their environment?	**Seasonal changes: autumn and winter** Biology: How do living things live together in their environment? Physics: How do we see, hear and communicate? How does the Earth fit into the universe?	**Human body parts** Biology: What are living things and what are they made of? Why are there similarities and differences between living things? Physics: How do we see, hear and communicate?	**Identifying plants and their basic parts** Biology: What are living things and what are they made of? Why are there similarities and differences between living things?	**Seasonal changes: spring and summer** Biology: How do living things live together in their environment? Physics: How do we see, hear and communicate? How does the Earth fit into the universe?	**Everyday materials** Chemistry: How do we explain how substances behave, what are things made of? Physics: Why do materials have different properties? CC How can we live sustainably to protect Earth for a better future?
2	**Uses of everyday materials** Chemistry: What are things made of? How can substances be made and changed? Physics: Why do materials have different properties?	**Growing plants** Biology: How do living things grow and reproduce? How do living things stay healthy? CC: How can we live sustainably to protect Earth for a better future?	**New Life** Biology: How do living things grow and reproduce? How do living things stay healthy?	**Introduction to food chains** Biology: How do living things live together in their environment?I	**Living things and where they live** Biology: What are living things and what are they made of? How do living things live together in their environment?	**Healthy me** Biology: How do living things stay healthy?

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3	**Rocks and Soils** Chemistry: What are things made of? How can we explain changes in the air, land and oceans? Physics: Why do materials have different properties? CC How can we live sustainably to protect Earth for a better future?	**Introduction to the human skeleton and muscles** Biology: What are living things and what are they made of?	**Simple forces including magnets** Physics: How do forces make things happen? How do electricity and magnetism work?	**Healthy eating** Biology: How do living things grow and reproduce? How do living things live together in their environments? How do living things stay healthy? CC How can we live sustainably to protect Earth for a better future?	**What plants do and what they need** Biology: What are living things and what are they made of? How do living things grow and reproduce?	**Introduction to light and shadows** Physics: Why do materials have different properties? How do we see, hear and communicate?
4	**Introduction to the human digestive system** Biology: How do living things stay healthy?	**Introduction to states of matter and changing states** Chemistry: What are things made of? How can substances be made and changed? Physics: Why do materials have different properties? CC How can we live sustainably to protect Earth for a better future?	**Simple electrical circuits** Physics: How do we see, hear and communicate? How do electricity and magnetism work?	**Introduction to sound** Physics: Why do materials have different properties? How do we see, hear and communicate?	**Living things and the environment** Biology: How do living things live together in their environments? Why are there similarities and differences between living things? CC How can we live sustainably to protect Earth for a better future?	**More about food chains** Biology: How do living things live together in their environments?

5	**Properties, changes and separating materials** Chemistry: How do we explain how substances behave? What are things made of? Physics: Why do materials have different properties? CC How can we live sustainably to protect Earth for a better future?	**Forces including simple machines** Physics: How do forces make things happen?	**Earth, Sun and Moon** Physics: How does the Earth fit into the universe?	**Reproduction and life cycles: plants** Biology: What are living things and what are they made of? How do living things grow and reproduce? Why are there similarities and differences between living things?	**Reproduction and life cycles: animals** Biology: what are living things and what are they made of? How do living things grow and reproduce? Why are there similarities and differences between living things?	**Human development** Biology: How do living things grow and reproduce?
6	**The human circulatory system Changing circuits** Biology: What are living things and what are they made of? How do living things stay healthy?	**Changing circuits** Physics: How do we see, hear and communicate? How do electricity and magnetism work?	**Keeping healthy** Biology: How do living things stay healthy? CC How can we live sustainably to protect Earth for a better future?	**Why we group and classify living things** Biology: What are living things and what are they made of? How do living things grow and reproduce? Why are there similarities and differences between living things? CC How can we live sustainably to protect Earth for a better future?	**Evolution and inheritance** Biology: What are living things and what are they made of? How do living things grow and reproduce? Why are there similarities and differences between living things?	**Light and how it travels** Physics: Why do materials have different properties? How do we see, hear and communicate?

Note: Year 2 indoor experiments with plants take place in Autumn so that outdoor observations for Living things and where they live can take place in Summer and healthy me can include experiments outside or be CC with PE.

We are not including climate change and sustainability due to time constraints.