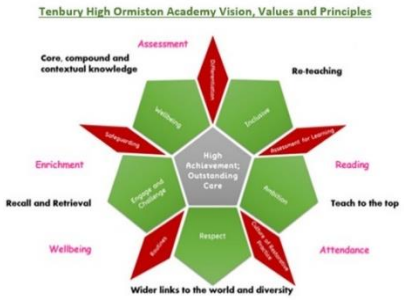
TENBURY HIGH
ORMISTON ACADEMY



Curriculum Overview for Science
Year 8

Half Term 3: Living off the grid **Substantive Knowledge:** Identify common circuit symbols. Describe the roles of different system. Describe current and how to measure it. Describe voltage and how to measure it. Explain how series and parallel circuits are different. Describe ohms law. Recall equation for electrical power. Describe how fossil fuels form. explain the impact of burning fossil fuels. Describe the difference between renewable and non-renewable power. Compare the impact of using different sources of power. Describe the main structures of a flower. Explain how plants can be suited to different types of pollination. Identify predatory and prey on food web. Describe some methods of intensive farming. Explain the impact of intensive farming. **Disciplinary Knowledge:** Identify energies in a system Calculate the efficiency of a system. Draw simple circuits. Calculate resistance Describe how a change in one part of a food chain can affect other organisms.		Model reading and highlighting to pick out key details, reading of data, Skim reading
		Series circuit, Parallel circuit, Current , Voltage, Power, Resistance, Fossil fuel, Renewable energy, Non-renewable energy, Petal, Stamen, Stigma, ovule, Producer, Consumer, Predator, prey
		Recall test x 2 Written assessment End of unit assessment
		Revise for recall test x 2 Revise for end of unit assessment
Half Term 4: Living off the grid **Substantive Knowledge:** Identify common circuit symbols. Describe the roles of different system. Describe current and how to measure it. Describe voltage and how to measure it. Explain how series and parallel circuits are different. Describe ohms law. Recall equation for electrical power. Describe how fossil fuels form. explain the impact of burning fossil fuels. Describe the difference between renewable and non-renewable power. Compare the impact of using different sources of power. Describe the main structures of a flower. Explain how plants can be suited to different types of pollination. Identify predatory and prey on food web. Describe some methods of intensive farming. Explain the impact of intensive farming. **Disciplinary Knowledge:** Identify energies in a system Calculate the efficiency of a system. Draw simple circuits. Calculate resistance Describe how a change in one part of a food chain can affect other organisms.		Model reading and highlighting to pick out key details, reading of data, Skim reading
		Series circuit, Parallel circuit, Current , Voltage, Power, Resistance, Fossil fuel, Renewable energy, Non-renewable energy, Petal, Stamen, Stigma, ovule, Producer, Consumer, Predator, prey
		Recall test x 2 Written assessment End of unit assessment
		Revise for recall test x 2 Revise for end of unit assessment