Ravens Wood School

KS3 Curriculum Plan

Subject: Energy

Overarching Topic: Energy			
Why is this topic being studied at this time? How does it fit into the wider subject curriculum?	Earth has a wide variety of natural resources and how humans have used these is having ever changing consequences to the planet. This unit will enable students to be informed about the opportunities, challenges and consequences of the ever-changing relationship with natural resources. Students will gain an understanding of the formation of fossils and consequential resources, the uses of these and the disputes on the news around energy management. Students will link previous work on climate change to understanding the complexity of the world's most diverse climate crisis and threats. The students will work towards a decision-making task, bringing together their knowledge of renewable energy, resource usage and climate threats. Students will complete this topic with the skills to examine their own actions and their impact on global ecosystems.		
	Essential	Core	Ambitious
The Big Questions (What questions will students be able to answer upon mastery of the topic?)	• What is a natural resource? • What is a geological timescale? Give an example • How do different rocks form? • What are renewables and non-renewable energy sources? • How do we get energy? • How has the use of energy changed? • Why might some people disagree with some types of energy? • How does RWS use energy?	• How are natural resources distributed globally? • What are the factors affecting the distribution of resources? • How has the geological timescale of the planet changed? • Why might some areas use different types of energy resources? • How can energy resources be managed sustainably? • Why is fracking contentious? • What decisions do countries face? (Examples used in decision making exercise) • How can we use a variety of fieldwork methods to decide RWS' energy consumption?	Is economic development in the short term more important than reducing our emissions from fossil fuels? How can we achieve energy sustainability on a global scale? How do the needs of countries, cities, RWS differ? Why?

The Key Skills/ Techniques	The sophistication and application of skills will become more advanced as students' progress through the essential, core and ambitious knowledge.	
	Skill/Technique	How will this skill be developed?
	Graphical Skills	Use graphs and charts to investigate rates of resource usage
	Map Skills	Use maps to investigate the distribution of natural resources globally.
	Exam skills – Use of specific information e.g case studies	Analysis of resources linking to topic content. Extended writing using scaffolding and example answers . Evaluating impacts and viability of sustainable management strategies.