

High Tunstall College of Science Curriculum Intent

Subject: Separate Physics Year: 10

Thread 1—Energy



	Physics Thread 1—Energy	Progress		
Topic	Key ideas	R	A	G
Energy	I can identify energy stores			
	I can explain how energy is transferred in a system			
	I can calculate specific heat capacity			
	I can calculate energy efficiency			
	I can consider the current issues associated with the increasing demand for energy			
	I can apply my learning and use contextualised information to solve problems and suggest solutions			

Lesson	Learning Focus	Assessment	Key Words
1	What are energy stores and systems?	SOLO taxonomy	Energy store, transfers, kinetic, thermal, sound, gravitational, elastic
2	What is specific heat capacity and how do we calculate it?	Completion of progress tasks and differentiated questions	Specific heat capacity, mass, temperature change
3	RPA Specific Heat Capacity	Completion of RPA and conclusions made	Specific heat capacity, mass, temperature change
4	How do we calculate efficiency?	Calculation of energy efficiency of different appliances	Efficiency, wasted, useful
5	How can we use renewable energy to solve the energy crisis?	Production of a proposal to suggest appropriate energy resources, with justification for these	Renewable, non-renewable