## High Tunstall College of Science Curriculum Intent

Subject: Physics Year: 9

## Thread 1—Energy



	Physics Thread 1—Energy		Progress		
Торіс	Key ideas	R	Α	G	
Energy	I can identify energy stores				
	I can explain how energy is transferred in a system				
	I can compare efficiency of different electrical devices				
	I can consider the current issues associated with the increasing demand for energy				
	I can compare wind, water, solar and geothermal energy resources				
	I can apply my learning and use contextualised information to solve problems and sug- gest solutions				

Lesson	Learning Focus	Assessment	Key Words
1	What are energy stores, and how is energy trans- ferred?	Completion of energy trans- fer pathways	Energy store, transfers, kinetic, thermal, sound, gravitational, elastic
2	How efficient are electrical appliances?	Data analysis to compare the efficiency of different light bulbs	Efficiency, wasted, useful
3	How can we tackle the global energy crisis?	Completion of extended mark exam questions	Demand
4	How do we use wind and water to generate elec- tricity?	Justified comparison of differ- ent energy resources that can be used to replace fossil fuels	Renewable, tidal, wave, wind
5	How do we use the Sun and the Earth to generate electricity?	Justified comparison of differ- ent energy resources that can be used to replace fossil fuels	Geothermal, solar
6	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