

Energy Resources: GCSE

Name _____ Date ____/____/____

Go to www.darvill.clara.net/aleneng and fill in this table:-

	How it works	Advantages (List first 2)	Disadvantages (List first 2)	Renewable? [yes/no]	Score on Quiz
Fossil Fuels (coal, oil, gas)	Fossil fuels are burnt to produce thermal energy. The thermal energy is used to heat water turn it to steam. The steam turns a turbine that powers a generator. The generator makes electricity.				
Nuclear Power (uranium)	Uranium atoms are split in a reactor to produce thermal energy. The thermal energy is used to heat water and turn it to steam. The steam turns a turbine that powers a generator. The generator makes electricity.				
Solar power	Photovoltaic cells (solar panels) convert radiant energy from the sun into electricity.				
Wind Power		1. Wind is free. 2. Produces no pollution or waste			

Tidal Power	A huge dam called a barrage is built across a river estuary. When the tides go in and out, the rising and falling water turns a turbine that powers a generator. The generator makes electricity.				
Hydro-electric Power			<ol style="list-style-type: none"> 1. Dams are expensive to build. 2. Dams have a negative effect on the environment and ecosystems. 		
Wave Power	At a wave power station, the waves cause the water inside a chamber to rise and fall. This forces air at the top of the chamber to be forced in and out. The forced air turns a turbine that powers a generator. The generator makes electricity.				
Geothermal Power		<ol style="list-style-type: none"> 1. Virtually no pollution 2. Power stations are small and don't impact the environment much. 			
Biomass		<ol style="list-style-type: none"> 1. Creates a lot pollution and carbon dioxide. 2. Collecting or growing enough fuel can be difficult. 			