Subject	Year	Term
Environmental Science	13	1

Topic

Energy Resources

Content (Intent)

Prior Learning (Topic)

Renewable and non-renewable energy
Types of energy
Fossil fuels
Finite resources
Radiation
Radioactive decay

Future Learning (Topic)

The importance of energy supplies in the development of society

The impact of the features of energy resources on their use

The sustainability of current energy resource exploitation

Strategies to secure future energy supplies

How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)
Note taking convert between joules, watts, kWh and MWh when carrying out calculations. carry out calculations using numbers in standard and ordinary form, eg when comparing production of different energy resources. calculate surface area to volume ratios and relate this to heat loss. Practical: Surface area to volume ratio in relation to heat loss use V^3 in wind power calculations. find the mean of a range of data, eg mean power output of a wind farm. represent a range of data in a table with clear headings, units and consistent decimal places, eg to compare the energy density, production cost, carbon intensity and mean load factor for a range of energy resources. construct a Sankey diagram to represent energy resources, uses and efficiency for a country.	- Homework Booklet marked and written feedback given Test marked, graded and feedback given

How can parents help at home?		
Look at the topic specific resources on the VLE Use appropriate YouTube channels Encourage students to write revision cards Look at the specification on the AQA website Complete past papers (on the AQA website) Take an interest! Ask your children what they have learnt and be curious about their learning.		
Helpful further reading/discussion		
Reading Environmental Science Chapter 9	**Vocabulary Lists** **Affluence** **Depletable** **Abundance** **Intermittency** **Gasification** **Liquefaction** **Fracking** **Fission** **Embodied Energy** **Fusion** **Thorium reactor** **Toroidal reactors** **Photovoltaic** **Kaplan turbines** **Biofuel**	**Careers Links** See VLE