Subject	Year	Term
Environmental Science	12	1

Topic

The Atmosphere

Content (Intent)

Prior Learning (Topic)

The Enhanced Greenhouse effect
Composition of Atmosphere
EM spectrum
Atmospheric pressure
Density

Future Learning (Topic)

<u>How atmospheric energy processes involving ultra violet (UV), infrared (IR) and visible light in the stratosphere and troposphere affect life-support systems</u>
Origins and roles of UV and IR in the atmosphere.
How different wavelengths of electromagnetic light behave in the atmosphere

<u>Global climate change: how interconnected natural systems cause environmental change</u>
Students should select, analyse and evaluate the data available on natural and anthropogenic climate change.

<u>Ozone depletion</u>
Students should consider the success of tackling ozone depletion and compare this with other environmental issues.

How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)
Researching lastest technologies to reduce GHG Looking at case studies Creating models of El Nina and El Nino Data analysis Plot atmospheric carbon dioxide levels, atmospheric temperature and solar output over time represented on a graph. Construct a flow diagram of carbon reservoirs and transfer processes in the carbon cycle Analyse the reliability of past data collected on ozone depletion. Assess the reliability of using proxy data to monitor climate change.	- 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	**Vocabulary Lists**	**Careers Links**
Environmental Science Chapter 4	**Dynamic Equilibrium** **Monatomic, diatomic and triatomic** **Infrared** **Chlorofluorocarbons** **Troposphere** **Stratosphere** **Mesosphere** **Thermosphere** **Cryosphere** **El Nino** **El Nina**	See VLE