

Autumn 2

C13 The Earth's Atmosphere

Aiming for Grade 8

Extended Homework Assignment

Name: _____

Set: _____

Instructions

A printed copy should be handed into your teacher.

The knowledge required to complete this assignment will be supported in class in lessons of the half term.



**OLD BUCKENHAM
HIGH SCHOOL**

Achieving excellence together

C13 The Earth's atmosphere – Aiming for Grade 8

Aims

In this activity you will produce a letter to citizens of the past about the changing atmosphere and how they can minimise the human impact on the atmosphere and climate.

Learning outcomes

After completing this activity, you should be able to:

- outline how the Earth's atmosphere continually changes over time
- explain how human influence may have led to changes in the Earth's atmosphere and climate.

Task

Imagine you are able to write to people living a long time in the past, perhaps people living at the start of the industrial revolution when fossil fuel use rose dramatically.

Write them a letter that explains the following things, using your modern up-to-date scientific knowledge:

- How the Earth's atmosphere developed over time and continues to change.
- How we as humans influence the atmosphere and climate.
- Some practical and reasonable steps they could take to prevent the issues we face in modern times. Remember to be realistic – you can't ask them never to burn any fuels.

Your letter should cover the issues surrounding global climate change and pollution, and should be a persuasive piece of writing. Include equations and diagrams where possible and make sure you explain any scientific concepts in a clear and easy to understand way.

Your letter should ideally be between two and three pages of A4 paper in length. (22 marks)