

**How can I save the atmosphere?****Introduction**

Everybody contributes to the Greenhouse Effect by the way we live our lives. Industrial companies and services are required to monitor how much they contribute to the Greenhouse Effect and make efforts to reduce their impact. What can an ordinary family do to reduce their contribution to the Greenhouse Effect?

**Task**

Make a “Green Pledge” for someone. Imagine you are an environmental consultant. You want to encourage people to reduce their contribution to the Greenhouse Effect.

- Mum takes short car journeys to drop kids off at school twice a day.
- Dad drives to work 16 miles away, on his own.
- They throw away all their rubbish, without recycling.
- They leave lights on in the house when they are not in.
- They leave two TVs on standby overnight and do not shut computers down
- They take two holidays abroad by aeroplane each year.

Write a “Green Pledge” for this family, so they can see what they can do to reduce their contribution to the Greenhouse Effect. Include:

**Background**

- What the Greenhouse Effect is.
- What causes the Greenhouse Effect.
- What will happen if the Greenhouse Effect continues to increase.

**Your advice, with scientific reasons**

- Identify at least three things they can change to reduce their contribution to the Greenhouse Effect.
- Give reasons but also think about what would be easy for the family to do and what they might be less willing to change.
- Also list some long-term changes they could perhaps make.

**Key words:**

bio-fuel, combustion, complete combustion, crude oil, fossil fuel, global warming, hydrocarbon, ignition, incomplete combustion, recycle, residue, sootiness, sustainability, toxic

## Guidance ladder

What is your target grade? Use this grade ladder to help you reach it.

To get grade	You might include
E	<p>Showed some knowledge and understanding of the causes, effects and ways to reduce the Greenhouse Effect.</p> <p>Described simply what the Greenhouse Effect is and some of the causes.</p> <p>Identified some problems caused by the Greenhouse Effect.</p> <p>Simply explained why it is important for the family to make changes.</p> <p>Stated simply what changes the family could make, giving simple scientific reasons.</p> <p>Used some key words correctly.</p> <p>Written your ideas in simple sentences.</p> <p>Used one source (referenced) of information to write your Green Pledge.</p>
C	<p>Showed good knowledge and understanding of the causes, effects and ways to reduce the Greenhouse Effect.</p> <p>Described what the Greenhouse Effect is, what causes it and the problems it may cause.</p> <p>Selected some simple statistics to help demonstrate the effects of the Greenhouse Effect.</p> <p>Explained simply why it is important for families to reduce their contribution.</p> <p>Described what they could change about their lifestyle, why they should change it and what effect these changes will have.</p> <p>Used most key words correctly and fluently.</p> <p>Written your ideas in all your own words, using proper sentences.</p> <p>Used at least two sources of information to produce your Green Pledge.</p>
A	<p>Showed detailed knowledge and understanding of the causes, effects and ways to reduce the Greenhouse Effect.</p> <p>Explained in detail what the Greenhouse Effect is, what causes it and the problems it is/could be causing.</p> <p>Explained why it is important for families to reduce their contribution.</p> <p>Used graphs to help demonstrate how the Earth's atmosphere has changed over the past and how it is changing now.</p> <p>Described in detail what they could change about their lifestyle, why they should change it and what impact that will have on reducing the Greenhouse Effect.</p> <p>Used all key words correctly and fluently.</p> <p>Written your ideas in all your own words, using proper sentences and paragraphs.</p> <p>Used at least two sources of information to produce your Green Pledge.</p>

Use the above guidance to ensure that your pledge is of a standard that reflects your GCSE potential. When marked highlight two ways that you could improve your work.

- 1.
- 2.