

SULPHUR DIOXIDE IN THE ATMOSPHERE

We Are Learning To

research and communicate information.

What I am Looking For is for you to:

- communicate your ideas in a particular written form.

Differentiated outcomes:

- will be able to produce a presentation showing the effects of sulphur dioxide in the atmosphere (all); and
- will be able to explain the process of formation of sulphur dioxide or acid rain and in terms of molecules (some).

Key words

see glossary sheet

Homework

Pupils can improve their animations, perhaps adding sound, or preparing a performance.

Health and safety

No special instructions

Equipment

- statement sheet – 1 per pair
- glossary
- animation briefs
- 'actors and settings' PowerPoint file for each 'scene'

This lesson relates to QCA's Key Stage 3 scheme of work Unit 9G Particles

Lesson plan

Starter (5 min)

Elicit prior knowledge of sulphur dioxide and record pupils' ideas for example as a spider diagram, lists etc. Introduce the statement sheet. Working in pairs, pupils cut out statements and group them into two sets based on whether we would be better off with or without sulphur dioxide.

Main

This activity gets pupils to create an animation in PowerPoint about sulphur dioxide. They will tell the 'story' of how it is formed, and its effects on people and the environment.

Pupils work in pairs, animating one of the 'scenes' in the story each. Making decisions about how to communicate clearly will help make the concepts memorable to pupils.

Pupils are given an 'animation brief' outlining their part of the story. First pupils sketch a storyboard of the action. Then they use the functions of PowerPoint to animate it. A large gallery of colourful graphics is provided in a PowerPoint file for each scene. These are the 'actors' that pupils can move around to tell the story. The files give tips on how to do this.

Ideally at the end, pupils have the opportunity to present their animation, and to accompany it with a spoken script. This way, the class can see the whole story.

The activity is designed for all versions of PowerPoint Version 2002 onwards which provide more sophisticated animation options, such as 'movement along a path'.

Further notes

You may need to help some pupils when beginning their animation. They need to break down the 'scene' into a series of actions. The PowerPoint files give some ready-made examples of these.