



Lesson: Carbon Cycle



ACTIVITY OUTLINE



Students use images (ppt or picture pack) to name environmental challenges of which they are aware.

Watch the breathing Earth animation to see the link between population growth and CO2 emissions. PLEASE NOTE: the animation requires adobe flash and may take a minute or two to upload so best prepare before lesson (just before is best as then students can see how numbers have changed in the lesson).

Card sort activities which increase/decrease CO2 levels and identify which ones are affected by human activity.

Exploring cause and effect: look at the statements and consider alternative causes to the observed correlations.

Testing ideas, students work in groups to look at a range of evidence around climate change.

Video clip of Greta Thunberg, opportunity to explain international bodies such as the UN, Paris climate agreement and consider actions



CURRICULUM OUTCOMES



Learning objectives:

(AQA ks3) Students will know that Scientists have evidence that global warming caused by human activity is causing changes in climate.

(AQA ks3) Use a diagram to show how carbon is recycled in the environment and through living things.

(AQA ks3) Describe how human activities affect the carbon cycle.



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GLOBAL LEARNING OUTCOMES



CLIMATE ACTION



Students can explain that human actions such as burning fossil fuels are causing today's climate change.

Students are able to make the link between patterns of human consumption and Climate Change.

Students understand that action on climate change is taking place worldwide at different levels: individual, collective and governmental. They can explain why action on all of these levels are important to address climate change.

SMSC/ British Values - Understanding of the consequences of their behaviour and actions. Interest in exploring, improving understanding of and showing respect for different faiths and cultural diversity and the extent to which they understand, accept, respect and celebrate diversity. This is shown by their respect and attitudes towards different religious, ethnic and socio-economic groups in the local, national and global communities.

Action



What is your carbon footprint?

Find out here - <https://footprint.wwf.org.uk/#/>

Follow #leedsbyexample to find out how you can contribute towards Leeds becoming a carbon neutral city.



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