

Curriculum Outdoors

Curricular Area: Social Studies People Place and Environment



<u>E&O:</u>	<u>Resources Needed</u>
I can consider ways of looking after my school or community and can	Year in the Life of a tree
encourage others to care for their environment. SOC 1-08a	Collection of videos from Woodland Trust – choose a tree pupils already familiar with or a tree
	that they may be planting soon
I can discuss the environmental impact of human activity and suggest ways in	https://www.youtube.com/watch?v=UnP8L4qYLFY&list=PLbKmvYI09ziwg_Gdp2mUdyUeiL9jjTw2U
which we can live in a more environmentally responsible way. SOC 2-08a	
which we can live in a more environmentally responsible way. See 2-06a	Carbon Capture Game Instructions – link to eaclost blog page
Learning Outcome:	
Pupils will be able to describe in simple terms the role of trees in mitigating climate	Teacher Information
change. Pupils will be able to suggest at least one way we can mitigate climate change.	https://www.woodlandtrust.org.uk/trees-woods-and-wildlife/british-trees/how-trees-fight-
	climate-change/
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	These resources from OWL Scotland consist of activity plans and resources designed for learning
	about carbon footprints
	https://www.owlscotland.org/resources/resource-
	library?channel=resources&resourcecat=all&subjectcat=29&age_group=26&page=5
Activity Capture the Carbon game – Trees	Assessment
1. Indoors, watch a Year in the Life Pupils are told that leaves are food	Quick Quiz
factories capturing light and CO2 for the trees to use as they grow.	1. What are the main sources of CO2 in our atmosphere.
2. Outdoors, ask pupils to breathe in and out (feel and/or see breath). What do	2. What do trees breathe in during daylight hours
we breathe in, what do we breath out? - Oxygen in, CO2 out. CO2 (along with	3. What do trees breathe out during daylight hours
other gases) helps form a blanket around the Earth trapping any heat.	4. What would happen if someone chopped down the tree and used it for fuel for
Sometimes called the Greenhouse Effect. Can pupils suggest other sources of	5. What would happen if the forest were allowed to grow without being managed by
CO2 or other greenhouse gases – possible suggestions, fumes from cars,	humans? What would happened if the entire woodland were chopped down all at once.
power stations, home heating systems. Trees, in contrast, during daylight	numans: what would happened if the entire woodland were chopped down an at once.
hours, take in CO2 and give out oxygen. Trees capture the carbon and fix it in	
their roots, trunk, branches and leaves so long as they are living.	Can pupils suggest ways that we can limit the amount of CO2 we put into the atmosphere?
3. Play the Carbon Capture game.	Can pupils suggest ways we can help capture CO2 from the atmosphere.
4. Pupils suggest ways we, as a school community, can make changes to reduce	
the amount of greenhouse gases in the atmosphere. See Assessment	Suggested further activities –
	Build a Tree – OWL resources
	https://www.owlscotland.org/images/uploads/resources/files/Summer_text_stages_1+2.pdf
	Research
	Pupils investigate the life cycle of evergreen trees. Are they better, same or less effective in
	carbon capture?