





What impact are fossil fuels having on the world? (Autumn 1- 6 weeks)

<u>Launch</u>	<u>Intent</u>	<u>Key Concepts</u>	
Watch 2040.	<ul style="list-style-type: none"> Children understand fossil fuels uses, impact on the world and consider ways to overcome this. 	<ul style="list-style-type: none"> Empathy Impact Sustainability Choices 	<ul style="list-style-type: none"> Responsibility Change Citizenship Curiosity
<u>Core Texts</u>	<u>Cross-curricular Links</u>	<u>Key Figures</u>	
		 Greta Thunberg	
<u>Nature Connectivity</u>	<u>ICT/ Useful links</u>	<u>Enrichment</u>	<u>Oracy</u>
	Wind Turbine Project How to make Wind Turbine School Project with Cardboard - YouTube A Case Study of Fossil-Fuel Depletion - resilience	Visit an eco house/ village.	Using Movie Maker to create an awareness video.



Sequence of Lessons

<u>Lesson</u>	<u>Learning Challenge</u>	<u>Learning Flashbacks</u>	<u>Adaptations</u>
1. Science	Can I use a range of sources to research the discovery of electricity?		
2. Geography	Can I research fossil fuels? Do I know where in the world fossil fuels come from?	*Fossils from Year 3 Science Topic	
3. Geography	Can I research alternatives for fossil fuels? Do I know where in the world is most successful at using renewable energy based on their geographical features?		
4. Geography	Can I research the human and physical geography of Alberta (Canada)?		
5. Geography	Can I compare the physical and human geography of Alberta (Canada) to Leicester?		
6. PSHE	Can I understand the impact of fossil fuels on the world?		
7. PSHE	Can I collect opinions from my local community around alternative fuels?		
8. PSHE	Can I understand my own carbon footprint?		
9. Science	Can I recognise and draw circuit diagrams using the appropriate symbols?	*Year 4 Science topic of Electricity	
10. Science	Can I make a working circuit identifying the effect of changing the components?		
11. Science	Can I compare and give reasons for the variation of loudness of buzzers and the on/off of switches?		
12. Science	Can I investigate how the brightness of a lamp or volume of a buzzer changes with a different number of cells?		
13. Science	Can I understand how voltage change in a circuit effects a buzzer or lamp?		
14. D&T	Can I research wind turbine? Can I design a functioning wind turbine?		
15. D&T/ Science	Can I create a circuit for my wind turbine?		
16. D&T	Can I use recycled materials to build create my wind turbine?		
17. D&T	Can I evaluate my wind turbine?		
18. Computing	Can I use Movie Maker to create a video about fossil fuel/ sustainability learning?*		



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