

Science Summer Work

Entering Grade 4

Climate Education: Renewable + Nonrenewable Resources

4-ESS3-1. Obtain and combine information to describe that energy and fuels are derived from natural resources, and their uses affect the environment.

| Entering Grade 4 Activity Board | | |
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| <p>Generation Genius: Renewable vs. Nonrenewable Resources</p> | <p>Newsela STEM: Types of Renewable Energy</p> | <p>Research: Use the Types of Fossil Fuels Concept Map to research the Fossil Fuels and their negative effects on the environment.</p> <p style="text-align: center;">Types of Fossil Fuels Concept Map</p> |
| <p>Science Literacy: Choose one of the Fossil Fuels from the Types of Fossil Fuels map. Further research to find at least 3 negative effects on the environment. Use that info to write a well-developed essay. Include how it causes Climate Change, the impacts on the environment, and a solution.</p> <p>Fossil Fuels Cause + Effect Map</p> | <p>Carbon Footprint Calculator: Calculate your Carbon Footprint using the calculator link. Using your data, complete a class Data table. Use the class data to complete a Claim-Evidence-Reasoning template based on your data vs the class data.</p> <p style="text-align: center;">Carbon Footprint Calculator link</p> | <p>Engineering Design: Create a Green City using recycled materials from your home and school. You have student choice in your design and model. Provide a summary explaining what fossil fuel(s) you have eliminated and replaced with a new green energy source.</p> |

