

Name _____

Unraveling Climate Change: Understanding the Earth's Changing Climate

Open-Ended Response Answer Key

1. Human activities such as burning fossil fuels for energy, deforestation, industrial processes, and agriculture release large amounts of greenhouse gases into the atmosphere, enhancing the natural greenhouse effect and contributing to global warming and climate change.
2. Climate change can impact agriculture and food security by altering growing seasons, reducing crop yields, increasing the risk of pests and diseases, and decreasing freshwater availability for irrigation.
3. It's important for communities to adapt to the effects of climate change and develop resilience measures to minimize risks and protect vulnerable populations, infrastructure, and natural resources. This may include implementing early warning systems, building climate-resilient infrastructure, and promoting sustainable land and water management practices.
4. Individuals and communities can contribute to mitigating climate change by reducing greenhouse gas emissions through energy conservation, transitioning to renewable energy sources, supporting reforestation and afforestation efforts, and advocating for climate-friendly policies and initiatives at local, national, and global levels.

