

Name: _____

Carbon Reduction Strategies Exploration Sheet

Increasing amounts of carbon (as CO₂) in the atmosphere is rapidly changing Earth's climate. Emissions from fossil fuel burning are continually increasing the amount of CO₂ in the atmosphere. Natural processes can only absorb about half of those emissions into oceans and the land.

The rate of CO₂ emissions needs to be reduced to less than 20% of the current CO₂ emission rate to allow the land and oceans to absorb CO₂ as fast as it is emitted without leaving excess CO₂ in the atmosphere.

Answer questions below in complete sentences.

1. How can naturally occurring, sustainable energy resources reduce carbon emissions? Describe six examples.

2. How can you and your family reduce carbon emissions?

3. How can power plants help to reduce CO₂ emissions to less than 20% of the current CO₂ emission rate? Describe at least 5 processes that can be used for capturing and storing carbon dioxide.

4. How can algae be used to reduce carbon emissions?