

Name _____

Electric Vehicles and Their Environmental Impact

Open-Ended Response Answer Key

1. Possible Answer: Electric vehicles are quieter than gasoline cars due to their electric motors, leading to reduced noise pollution in cities.
2. Possible Answer: Reducing greenhouse gas emissions is essential because these gases trap heat in the Earth's atmosphere, leading to global warming and climate change. Electric vehicles play a role by producing zero tailpipe emissions, which helps decrease the overall carbon footprint of transportation.
3. Possible Answer: Challenges may include developing efficient recycling processes and dealing with different battery chemistries. These challenges can be overcome through research, innovation, and standardized recycling methods.
4. Possible Answer: Individuals can choose to recycle or properly dispose of old batteries, support recycling initiatives, and consider purchasing electric vehicles to reduce their carbon footprint.

