

Name _____

Zooming into the Future: Exploring Electric Vehicles (EVs)

Short Answer Key

1. The electric motor in an electric vehicle (EV) functions by converting electricity into motion. It turns the wheels and propels the vehicle forward.
2. The battery pack in an EV stores electricity needed to power the electric motor. It is recharged by plugging the EV into an electric charging station, where it receives a fresh supply of energy.
3. Regenerative braking in an EV is a process where the electric motor goes into reverse mode when the brake pedal is pressed. It converts some of the kinetic energy from braking back into electricity, which is then used to recharge the battery.
4. Two advantages of electric vehicles (EVs) in terms of their environmental impact are: they produce zero tailpipe emissions, reducing air pollution, and they help lower greenhouse gas emissions by using electricity, which can be generated from renewable sources.
5. Governments offer incentives to encourage the adoption of electric vehicles (EVs) to promote environmental sustainability, reduce air pollution, decrease reliance on fossil fuels, and incentivize the development and adoption of cleaner transportation options.

