Name _____

## How Do Electric Vehicles Perform in Cold Weather?

### Open-Ended Response Answer Key

1. Electric vehicles may experience reduced range and battery performance in cold weather, while traditional gasoline cars do not face these specific challenges related to temperature.
2. Preconditioning involves warming up the interior of an electric vehicle while it is still plugged in, using electricity from the grid rather than the battery. This helps preserve the battery's charge for driving.
3. Improving cold-weather performance makes electric vehicles more practical and appealing to a wider range of drivers, including those in colder climates. It also helps promote the adoption of electric vehicles, which can have positive environmental impacts.