Name _____

How Do Electric Vehicles Perform in Cold Weather?

Multiple Choice Questions

1. How does cold weather affect the range of electric vehicles?

a) It reduces the range.

b) It has no effect on the range.

c) It increases the range.

d) It improves battery performance.

2. What happens to the chemical reactions within the battery of an electric vehicle in cold weather?

a) They become faster.

b) They have no effect.

c) They slow down.

d) They become more efficient.

3. What is one way to optimize an electric vehicle's performance in cold weather without draining the battery?

a) Use the cabin heating system.

b) Precondition the cabin while plugged in.

c) Avoid using seat heaters.

d) Drive longer trips.

4. How can winter tires help improve an electric vehicle's performance in cold weather?

a) They reduce battery efficiency.

b) They increase cabin heating.

c) They provide better traction in snow and icy conditions.

d) They decrease the range.

5. What is the future outlook for electric vehicles in cold weather conditions?

a) Ongoing developments aim to improve cold-weather performance.

b) Automakers will ignore cold-weather challenges.

c) There will be no improvements.

d) Electric vehicles will only be suitable for warm climates.