

Name _____

Battery Boost Answer Key

1. Evidence includes that the warm battery powered the motor for 41 minutes and the cold battery powered the motor for only 18 minutes.
2. The original claim is weak because it does not include numbers, conditions, or a clear comparison.
3. Sample revised claim: Batteries at 100 degrees Fahrenheit powered a motor for more than twice as long as batteries at 20 degrees Fahrenheit, showing that warmer temperatures increase battery performance under these test conditions.

Teacher's Guide

- This worksheet strengthens students ability to **revise scientific claims using evidence**.
- For differentiation, provide a sentence frame such as The data show that when temperature increases, battery performance changes by.
- For engagement, have students compare their revised claims and vote on which is strongest and why.
- For extension, challenge students to write a **counterclaim** using the same data.
- For advanced learners, ask students to identify the **independent variable**, **dependent variable**, and **controls** in the experiment.
- For struggling readers, highlight the data values in the passage before students begin revising the claim.