Name Date Po	Period
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SCIENTIFIC METHOD EXAMPLE

STEPS IN THE SCIENTIFIC METHOD:

- 1. Does sitting out in the sun cause a person to get a tan?
- 2. If a person sits out in the sun, then that person will get a tan.
- 3. Do an experiment:
 Send 10 people onto the beach for 10 hours without sunscreen.
 Send 10 other people into a basement for 10 hours without sunscreen.
- 4. In the sun, 9 out of 10 people got a bad sunburn. In the basement, 0 out of 10 people got a bad sunburn.
- 5. The hypothesis is correct. Sitting out in the sun causes a person to get a tan.
- 6. Another scientist will follow this procedure in order to replicate the results.

EXPERIMENTAL DESIGN COMPONENTS:

1 independent variable: location (beach/basement)

dependent variable(s): number of people who got a bad sunburn

constants: 10 hours

10 people no sunscreen

same skin types in each group

control group: 10 people in the basement

experimental group: 10 people on the beach