

Name \_\_\_\_\_

## Convection: The Dance of Heat and Cold

### Open-Ended Response Answer Key

1. Answers may vary but should include the use of convection to explain the formation of weather phenomena such as thunderstorms, hurricanes, and wind patterns. It would also help in predicting temperature changes and climate trends.
2. Example Convection in a poorly ventilated room can lead to hot and stuffy conditions, making it uncomfortable for occupants.
3. Example answers: Using convection in solar water heaters to heat water for homes, or harnessing geothermal convection for generating electricity from underground heat.
4. Answers may vary but should discuss the differences in fluid composition and temperature ranges between Mars and Earth and how they affect convection patterns.

