

Name _____

Nature's Fury: How Hurricanes, Tornadoes, and Thunderstorms Form

Short Answer Key

1. Hurricanes form over warm ocean waters, where evaporation provides heat and moisture. The Coriolis effect causes the rising air to spiral, leading to the development of an eye and eye wall.
2. Tornadoes form in super cell thunderstorms due to a rotating updraft. Unlike hurricanes, tornadoes are smaller in scale and have a more direct destructive impact.
3. Thunderstorms form due to warm, moist air rising and creating updrafts. Collisions between ice particles and water droplets lead to electrical charges, resulting in lightning and thunder.
4. The Earth's rotation influences hurricane movement by causing them to spiral. When a hurricane makes landfall, it loses its energy source, warm ocean water, and weakens, but it can still bring heavy rainfall and strong winds.
5. Safety tips may include having an emergency kit, staying informed through weather alerts, seeking shelter in a secure location, and avoiding windows and high places during these weather events.

