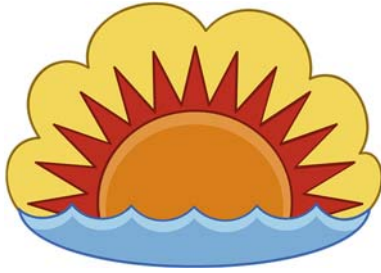


Name \_\_\_\_\_



## Effects of Changes in The Sun

The Sun's steady energy output makes life on Earth possible. But what would happen if the Sun gave off **less** or **more** energy than it does now? Use your imagination and scientific reasoning to answer the questions below.

### Critical Thinking Questions

1. If the Sun's energy **suddenly decreased**, what might happen to Earth's temperature, seasons, and ecosystems?
2. If the Sun's energy output **increased for a long time**, how might this affect ice caps, oceans, and weather patterns?
3. How would a **weaker Sun** impact food chains that rely on plants?
4. How might a **stronger Sun** affect human technology, such as satellites and power systems?
5. If the Sun became less stable and its energy changed often, how would this affect life on Earth compared to the steady energy we experience today?

**Reflection Prompt:** Write a short paragraph (4-5 sentences) explaining why the Sun's balance of energy is important for keeping Earth habitable.

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