Name _____

Solar Activity Cause-and-Effect

The Sun's activity: like solar flares, coronal mass ejections, and solar wind doesn't just stay in space. It can affect satellites, communication systems, and even weather patterns on Earth. In this activity, you'll complete cause-and-effect charts to trace how these solar events create real impacts.

Chart 1: Solar Flares → Satellites

- **Cause:** A strong solar flare releases a burst of radiation.
- **Effect:** _____

Chart 2: Solar Wind → Communication

- **Cause:** Charged particles from the solar wind interact with Earth's magnetosphere.
- **Effect:** _____

Chart 3: Coronal Mass Ejection → Power Systems

- **Cause:** A massive eruption of solar material hits Earth's magnetic field.
- **Effect:** _____

Chart 4: Solar Energy → Weather on Earth

- **Cause:** Variations in solar energy reaching Earth.
- **Effect:** _____

Reflection Question: In 3-4 sentences, explain why it is important for scientists to monitor solar activity and predict its effects on Earth.

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