

Name \_\_\_\_\_

## Cosmic Consequences Board

**Mission Brief:** As a **Trainee Impact Analyst** aboard the U.S.S. SolTracker, you are tasked with predicting and analyzing how different types of space objects interact with Earth's atmosphere. Using your knowledge of comets, meteors, meteoroids, and meteorites, complete the **Cause and Effect Charts** below.



Each chart presents either a **Cause** or an **Effect**. Your job is to fill in the **missing side** to complete the event sequence. Use accurate scientific vocabulary and reasoning.

**Your Task:** Fill in the five blank effect or cause boxes above using your knowledge of how space objects behave in Earth's atmosphere and in space.

### Cause

### Effect

A meteoroid enters Earth's atmosphere at high speed.

1. \_\_\_\_\_

2. \_\_\_\_\_

A glowing trail of light appears in the night sky.

A large comet passes close to the Sun.

3. \_\_\_\_\_

The heat from the Sun vaporizes the icy surface of a comet.

4. \_\_\_\_\_

A small rocky object survives atmospheric entry.

5. \_\_\_\_\_