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## Mission Log Vocabulary Match - "Journey Through the Debris"

**Instructions:** Read the fictional log entries from Commander Vega during her journey through the solar system. Match each **bolded word** in the log to its correct **definition** from the list below. There are 10 vocabulary words and 10 definitions. Write the **letter** of the correct definition next to each term.



## Mission Log - Commander Vega

- **Day 12** We've finally reached the edge of the **asteroid belt**, a wide region filled with rocky objects orbiting between Mars and Jupiter. Some of the larger ones are visible even from the cockpit.
- **Day 13** While running a scan, we spotted a small, fast-moving **meteoroid**—a piece of space rock drifting freely. It missed the ship, thankfully.
- **Day 15** A beautiful sight today: a glowing **comet** passed nearby. As it approached the Sun, it released gas and dust, forming a glowing **coma** and a long, bright tail behind it.
- **Day 16** A piece from that comet must have broken off. It entered the upper atmosphere of our ship's simulation zone and lit up brightly. That flash was a **meteor**, burning up from friction.
- **Day 17** What was left of the meteor fell onto the simulation terrain—a small black rock. It was officially classified as a **meteorite** and collected for analysis.
- **Day 18** We passed near the far edge of the solar system, where the **Oort Cloud** lies—home to icy bodies that haven't been disturbed in billions of years.
- **Day 19** We also logged the **Kuiper Belt**, another icy region beyond Neptune that holds many small objects, including dwarf planets.
- **Day 20** This mission has helped clarify the difference between asteroids and comets. An **asteroid** is mostly rock or metal, while a comet contains ice that vaporizes when heated.
- **Day 21** We observed a rare event—a **meteor shower** caused by Earth (or our ship's orbit simulation) moving through debris left by a passing comet.

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Ί.	Asteroid belt	A. A large collection of icy bodies far beyond Pluto, where long-period comets come
2.	Meteoroid	from. B. A rocky or metallic object, smaller than a planet, that orbits the Sun-often found between Mars and Jupiter. C. A rocky or metallic body that enters Earth's atmosphere and burns up, producing a streak of light. D. A cloud of gas and dust that forms around a comet's nucleus when it nears the Sun
3.	Comet	
4.	Coma	
5.	Meteor	
6.	Meteorite	
7.	Oort Cloud	E. The region between Mars and Jupiter filled with rocky space objects.
	3. Kuiper Belt	F. A frozen body of ice, rock, and dust that forms a tail when heated by the Sun.
		G. A small space rock traveling in space that hasn't entered the atmosphere.
9.	Asteroid	H. A leftover fragment from a meteor that survives the atmosphere and lands on a
10	). Meteor shower	surface.
		I. A band of icy objects beyond Neptune that includes dwarf planets.
		J. An event where multiple meteors are seen in the sky, usually caused by passing through comet debris.

