

6th Grade Science

Sample Assessment Items S6E1f.

Terry was learning about an object in the Solar System that is made of frozen gases and solid rock. Which of these objects was she learning about?

- A. a star
 - B. a comet*
 - C. a meteor
 - D. an asteroid
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The table below shows some information about objects found in our solar system.

Comparison of Objects Found in Our Solar System

| Object | Diameter (km) | Composition | Atmosphere |
|--------|---------------|---|--------------------------------------|
| 1 | 142,700 | Rocky core, liquid hydrogen ocean | Hydrogen, helium, methane, ammonia |
| 2 | 12,800 | Rocky core, liquid water ocean, supports life | Nitrogen, oxygen |
| 3 | 1 to 1,000 | Iron, nickel | None |
| 4 | 3,400 | Silica, iron | Very limited amounts of argon helium |

Based on the information, which object is most likely an asteroid?

- A. Object 1
 - B. Object 2
 - C. Object 3*
 - D. Object 4
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Which object in the solar system is made up of dust and rock and burns up when entering the Earth's atmosphere?

- A. moon
 - B. comet
 - C. meteor*
 - D. asteroid
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Compare and contrast a comet, meteor, and asteroid