

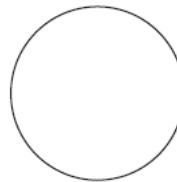


**1. Which diagram represents a crescent moon?**

**A**



**C**



**B**



**D**

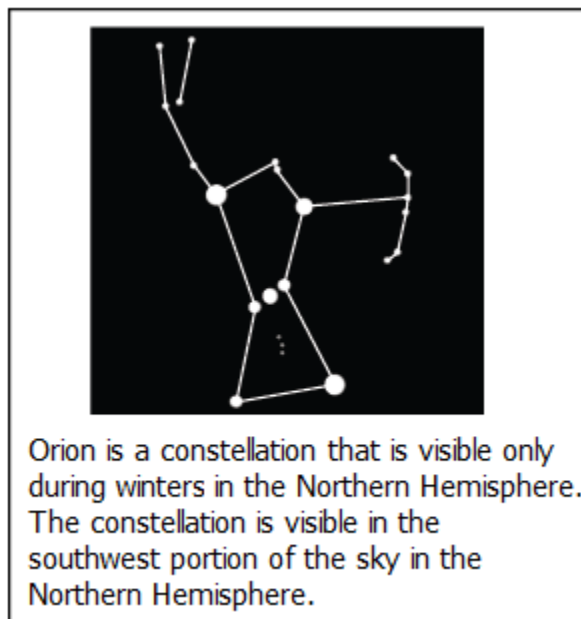


**2. A pea plant with violet flowers produces seeds. When grown in the shade, the seeds develop into plants that have yellowish leaves and fewer violet flowers and are shorter than the parent pea plant.**

**Which statement explains the difference between the parent and the offspring?**

- A** Growth of the pea plant and the flower color are both traits that depend on environmental factors.
- B** Growth of the pea plant is dependent on the flower color of the previous generation, and flower color depends on the environment.
- C** Growth of the pea plant changes with every generation, and flower color is a trait that is acquired.
- D** Growth of the pea plant depends on environmental factors, and flower color is a trait that is inherited.

**3. A student reads the information shown about a constellation.**



**Why would a person living in the Northern Hemisphere be unable to view Orion during the summer?**

- A** Earth's rotation on its axis blocks part of the sky during summer.
- B** The Moon's orbit around Earth blocks the view of some constellations.
- C** The constellation moves around the Sun in a direction opposite to Earth's orbit.
- D** Earth's orbit around the Sun causes the view of the constellation to be blocked.

**4. A student fills a beaker with 100 mL of water, adds 10 g of salt, and stirs the components until the salt is completely dissolved, making a salt solution. The student then places the beaker on a hot plate, evaporates the water, and observes that salt is left in the beaker.**

**Based on the student's observation, which statement is true about solutions?**

- A** The components of solutions keep their properties when mixed.
- B** The formation of solutions changes the physical properties of water.
- C** Solutions formed with water are always separated by filtration.
- D** When components are mixed to form solutions, new substances are formed.