

- 1** The radius of the Earth is approximately  $6.4 \times 10^6$  m, and the radius of the Moon is approximately  $1.7 \times 10^6$  m. A student wishes to build a scale model of the Solar System in the classroom, using a football of radius 0.12 m to represent the Earth.

Which object would best represent the Moon?

- A** basketball
- B** cherry
- C** golf ball
- D** tennis ball

- 2** When a beam of light is incident on a surface, it delivers energy to the surface. The intensity of