

## Universal gravitation

STUDENT BOOK pp. 70, 274

1. What is gravity? Check the correct answer.

- a) Gravity is the force of attraction between the poles of two magnets. ☐
- b) Gravity is the force associated with muscles. ☐
- c) Gravity is the force of attraction exerted by one mass on another mass. ☐
- d) Gravity is the force of repulsion between two persons. ☐

2. True or false?

- a) With the phenomenon of universal gravitation, gravity increases as the mass of two objects increases. \_\_\_\_\_
- b) With the phenomenon of universal gravitation, gravity increases as the distance between two objects increases. \_\_\_\_\_
- c) A falling object is an illustration of gravity. \_\_\_\_\_
- d) Gravity is greater on the Moon than on Earth. \_\_\_\_\_
- e) The greater the distance between two objects, the less gravity is experienced. \_\_\_\_\_
- f) The Moon orbits Earth because of gravity. \_\_\_\_\_
- g) All objects in the universe exert a force of gravity on the other objects. \_\_\_\_\_

3. Who discovered the law of universal gravitation?

- a) Albert Einstein ☐
- b) John Dalton ☐
- c) Isaac Newton ☐
- d) Leonardo da Vinci ☐

4. Explain the link between the law of universal gravitation and the force that holds objects on Earth.

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