

GRAVITY

Date:

Name:

Question A: Which object falls faster, the heavier or the lighter ball? *Choose the answer that shows your observation.*

- ☐ The lighter ball falls faster than the heavier ball.
- ☐ The heavier ball falls faster than the lighter ball.
- ☐ The two balls fall at the same speed.

Question B: Does the size of the crater depend on the height from which you drop the ball? *Choose the answer that shows your observation.*

- ☐ Yes, the crater is smaller when I drop the ball from a higher point.
- ☐ Yes, the crater is larger when I drop the ball from a higher point.
- ☐ No, the height does not make a difference in the size of the crater.

Question C: How does the mass of the ball change the crater? *Choose the answer that shows your observation.*

- ☐ The heavier ball makes a smaller crater than the lighter ball.
- ☐ The heavier ball makes a larger crater than the lighter ball.
- ☐ The mass of the balls does not make a difference in the size of the crater.

Fill in the blanks with the words (some words will not be used): *higher, lower, gravity, speed, love, energy, at the same time, different, mass*

The force that causes an object to fall is called _____. Two objects with _____ masses and dropped from the same height will fall at the same speed. I saw that the size of the crater depends on the _____ of the object. Since an object's _____ increases as it falls, an object dropped from _____ will make a bigger crater.