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Name _____ Class _____ Date _____

Activity

Vocabulary Activity

A Matter of Real Gravity

After you finish reading the chapter, try this puzzle! Use the clues given to fill in the blanks below. Then, copy the numbered letters into the corresponding squares on the next page to reveal a quotation attributed to Galileo.

1. When gravity is the only force acting on an object, the object is in

___ ___ ___ ___ ___ ___ ___ ___.
52 47 29

2. Because of free fall, astronauts appear this way in orbit.

___ ___ ___ ___ ___ ___ ___ ___ ___ ___
40 51 2 13 44

3. The velocity at which a falling object travels when the force of air resistance exactly matches the downward force of gravity is called the

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___.
12 46 17 25 8 19 49 30

4. The unbalanced force that causes an object to move in a circular path is called a _____ force.

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
32 22 42 1 39

5. Sir Isaac Newton is famous for his three laws of

___ ___ ___ ___ ___ ___.
11 54 38 33 26

6. Newton's third law states that objects exert _____ and _____ forces on each other.

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
34 16 23 18 31

7. The curved path traveled by a thrown baseball is known as

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___.
10 45 27 35 15 37 6

8. The acceleration of a falling object is caused by the force of

___ ___ ___ ___ ___ ___ ___.
21 53 4 48

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Vocabulary Activity *continued*

9. _____ is the tendency of an object to resist any change in its motion.

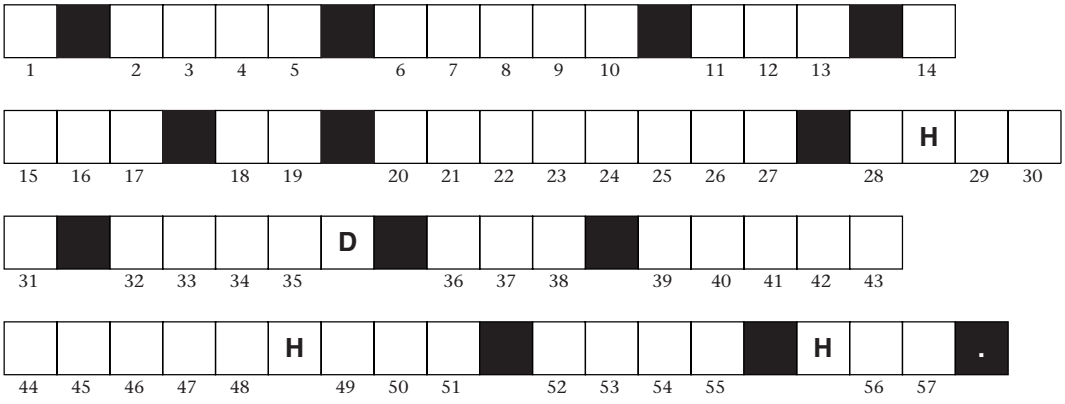
___ ___ ___ ___ ___ ___ ___
50 24 56 3

10. A moving object's _____ depends on the object's mass and velocity.

___ ___ ___ ___ ___ ___ ___ ___
55 9 43 57

11. The fluid friction that opposes the motion of objects through air is known as

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___.
14 5 20 28 41 36 7



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