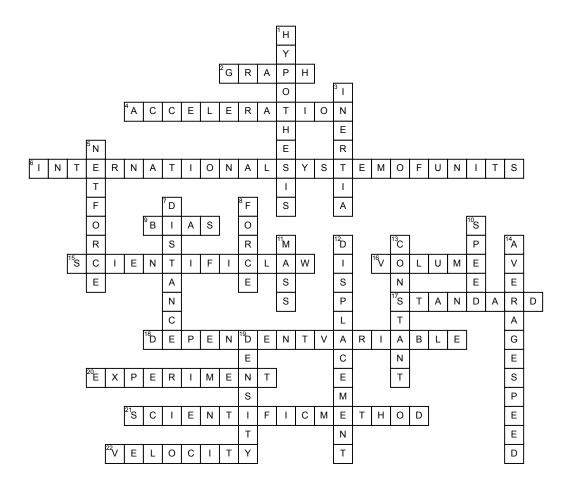
Name:	Date:	Period:

Motion



<u>Across</u>

- 2. visual display of information or data that can provide a quick way to communicate a large amount of information and allow scientists to observe patterns or trends
- 4. the rate of change of velocity
- **6.** the improves, universally accepted version of the metric system that is based on multiples of 10
- **9.** occurs when a scientist's expectations change how the results of an experiment are viewed
- **15.** statement about something that happens in nature that seems to be true all the time
- **16.** the amount of space occupied by an object

- **17.** an exact, agreed-upon quantity used for comparison
- **18.** factor that changes as a result of changes in the other variables
- **20.** an organized procedure for testing a hypothesis
- 21. an organized set of investigation procedures that can include stating a problem, forming a hypothesis, researching and gathering information, testing a hypothesis, analyzing data, and drawing conclusions
- **22.** the speed and direction of a moving object

Down

1. an educated guess using what you know and what you observe

- **3.** resistance of an object to a change in its motion
- **5.** sum of the forces that are acting on an object
- 7. how far an object moves
- 8. a push or a pull exerted on an object
- **10.** distance an object travels per unit of time
- 11. amount of matter in an object
- **12.** distance and direction of an object's change in position from the starting point
- **13.** in an experiment, a variable that does not change when other variables change
- **14.** total distance an object travels divided by the total time it takes to travel that distance
- 19. mass per unit volume of a material

Word Bank

mass hypothesis average speed displacement velocity volume standard experiment graph force International System of Units inertia scientific method dependent variable constant distance density

scientific law acceleration bias net force speed