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## Motion



## Across

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
3. the rate of change of velocity
4. the improves, universally accepted version of the metric system that is based on multiples of 10
5. occurs when a scientist's expectations change how the results of an experiment are viewed
6. statement about something that
happens in nature that seems to be true all the time
7. the amount of space occupied by an object
8. an exact, agreed-upon quantity used for comparison
9. factor that changes as a result of changes in the other variables
10. an organized procedure for testing a hypothesis
11. 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
12. the speed and direction of a moving object

## Down

1. an educated guess using what you know and what you observe
2. resistance of an object to a change in its motion
3. sum of the forces that are acting on an object
4. how far an object moves
5. a push or a pull exerted on an object 10. distance an object travels per unit of time
6. amount of matter in an object
7. 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
8. total distance an object travels divided by the total time it takes to travel that distance
9. mass per unit volume of a material

## Word Bank

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

