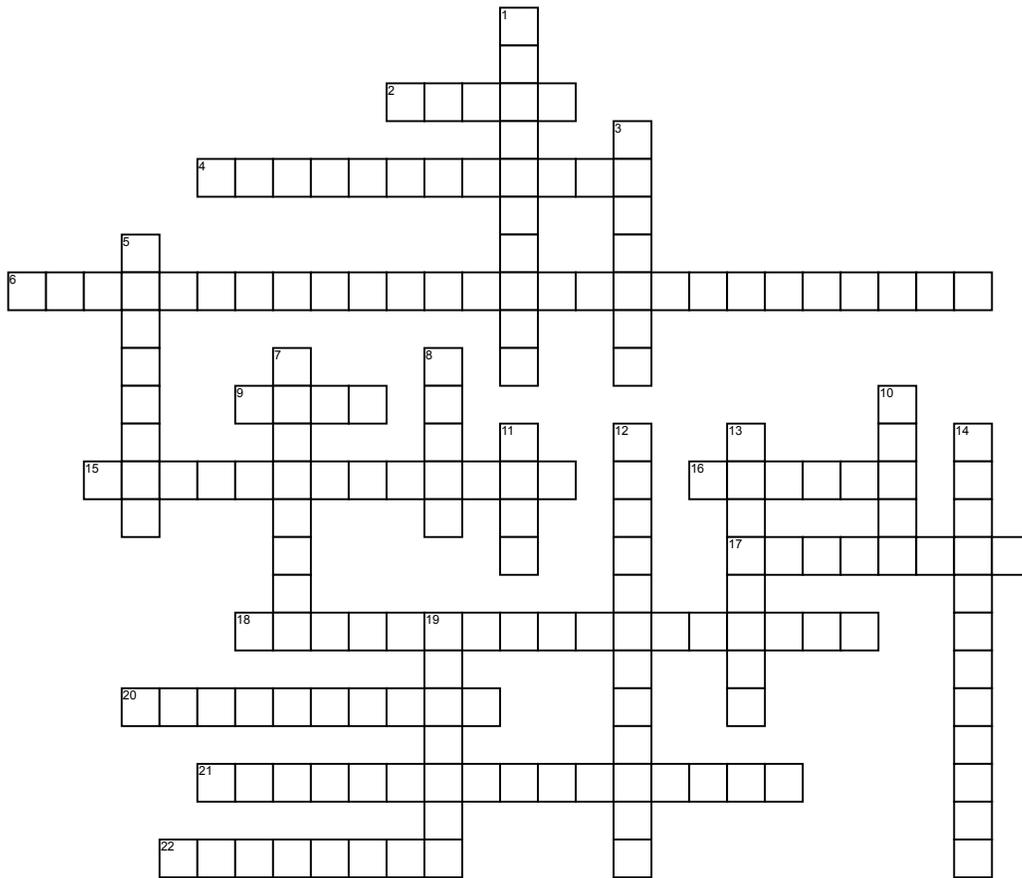


Motion



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
- 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

- 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

Down

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

Word Bank

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