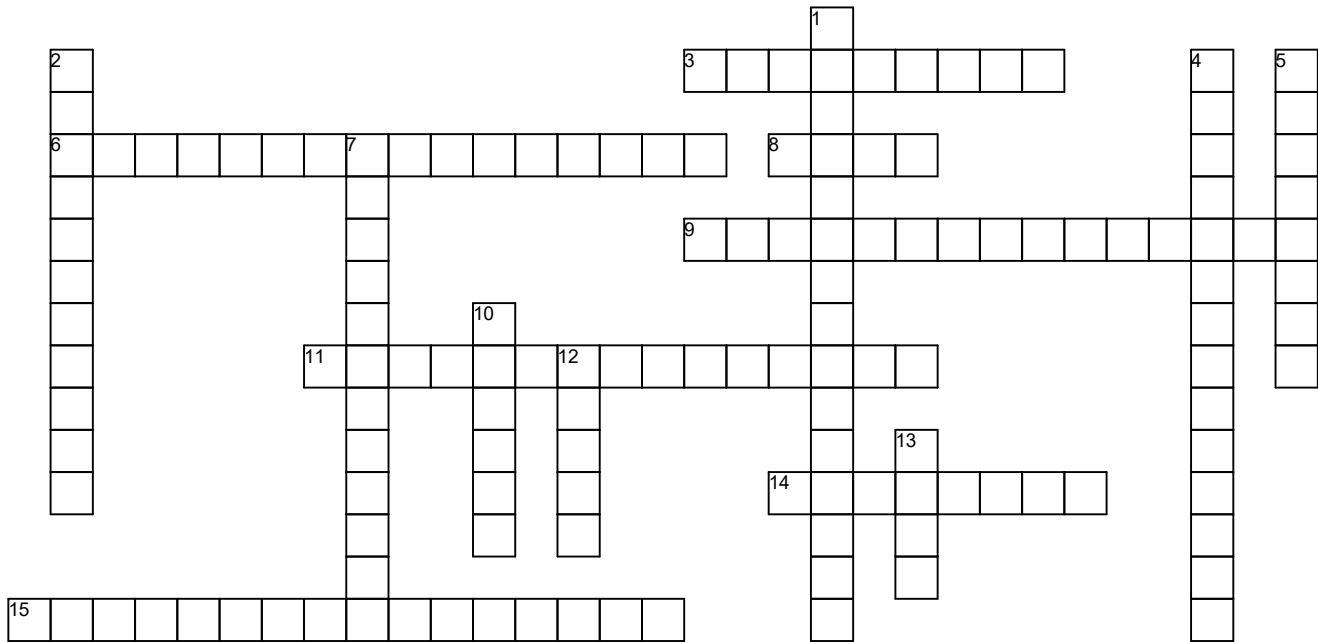


# 7th Grade Science Vocabulary Crossword Puzzle 9

1. Using the Across and Down clues, write the correct words in the numbered grid below.



## ACROSS

3. Fluid that fills cell (gelatin-like) in which many organelles are found; carries out the work of the cell.
6. A combination of the kinetic energy and potential energy an object has.
8. The smallest unit that is able to perform the basic functions of life.
9. States that every time one object exerts a force on another object, the second object exerts a force that is equal in size and opposite in direction back on the first object.
11. States that objects at rest remain at rest, and objects in motion remain in motion with the same velocity, unless acted on by an unbalanced forced.
14. Speed in a given direction.
15. States that the acceleration of an object increases with increased force and decreases with increased mass.

## DOWN

1. Stored energy; the energy an object has due to its position, molecular arrangement, or chemical composition.
2. A condition needed for health and functioning in which an organism or cell maintains a relatively stable internal environment
4. One of the basic machines on which all other mechanical machines are based.
5. Protective outer covering outside of the cell membrane; plant cells only.
7. Outer boundary of the cytoplasm and the environment outside; semi-permeable.
10. A change of position over time.
12. A measure of how fast something moves through a particular distance over a definite time period; distance divided by time.
13. The use of force to move an object over a distance.

speed  
 potential energy  
 mechanical energy  
 cell wall  
 Newton's second law

simple machines  
 cell membrane  
 Newton's third law  
 cell  
 homeostasis

motion  
 Newton's first law  
 velocity  
 work  
 cytoplasm