

7th Grade Science Vocabulary Matching 3

Write the word that best matches each definition or clue.

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| 1. <u>NEWTON'S SECOND LAW</u> | States that the acceleration of an object increases with increased force and decreases with increased mass. |
| 2. <u>NEWTON'S THIRD LAW</u> | 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. |
| 3. <u>HOMEOSTASIS</u> | A condition needed for health and functioning in which an organism or cell maintains a relatively stable internal environment |
| 4. <u>WORK</u> | The use of force to move an object over a distance. |
| 5. <u>CELL</u> | The smallest unit that is able to perform the basic functions of life. |
| 6. <u>NEWTON'S FIRST LAW</u> | 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. |
| 7. <u>CYTOPLASM</u> | Fluid that fills cell (gelatin-like) in which many organelles are found; carries out the work of the cell. |
| 8. <u>VELOCITY</u> | Speed in a given direction. |
| 9. <u>CELL WALL</u> | Protective outer covering outside of the cell membrane; plant cells only. |
| 10. <u>MOTION</u> | A change of position over time. |
| 11. <u>MECHANICAL ENERGY</u> | A combination of the kinetic energy and potential energy an object has. |
| 12. <u>SIMPLE MACHINES</u> | One of the basic machines on which all other mechanical machines are based. |
| 13. <u>SPEED</u> | A measure of how fast something moves through a particular distance over a definite time period; distance divided by time. |
| 14. <u>POTENTIAL ENERGY</u> | Stored energy; the energy an object has due to its position, molecular arrangement, or chemical composition. |
| 15. <u>CELL MEMBRANE</u> | Outer boundary of the cytoplasm and the environment outside; semi-permeable. |

cell

Newton's second law

homeostasis

speed

work

motion

cell membrane

Newton's first law

simple machines

mechanical energy

cell wall

cytoplasm

Newton's third law

potential energy

velocity