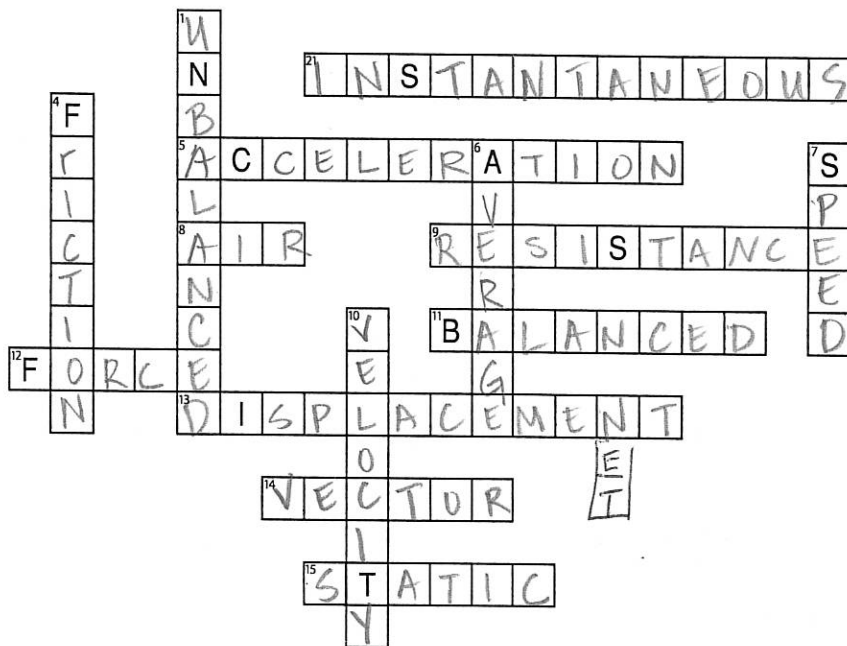




Directions: Use the clues below to complete the crossword puzzle.


**Across**

2. Speed at a given instant in time is \_\_\_\_\_ speed.
5. change in velocity per unit time
8. and 9. \_\_\_\_\_ causes objects to fall with different accelerations and speeds (two words)
11. forces on an object that are equal in strength but opposite in direction
12. a push or pull that is exerted on an object
13. the distance and direction of an object's final position from its initial position
14. Acceleration is a \_\_\_\_\_ because it has a size and a direction.
15. Both \_\_\_\_\_ and sliding friction are forces that oppose the motion of two objects that are in contact.

**Down**

1. type of force that can change the velocity of an object at rest or in motion
3. Equal, but opposite, forces are said to result in a(n) \_\_\_\_\_ force of zero.
4. force due to the microwelds that form between two surfaces in contact
6. Total distance traveled divided by the total travel time is \_\_\_\_\_ speed.
7. distance an object travels per unit time
10. includes both the speed of the object and the direction it is moving