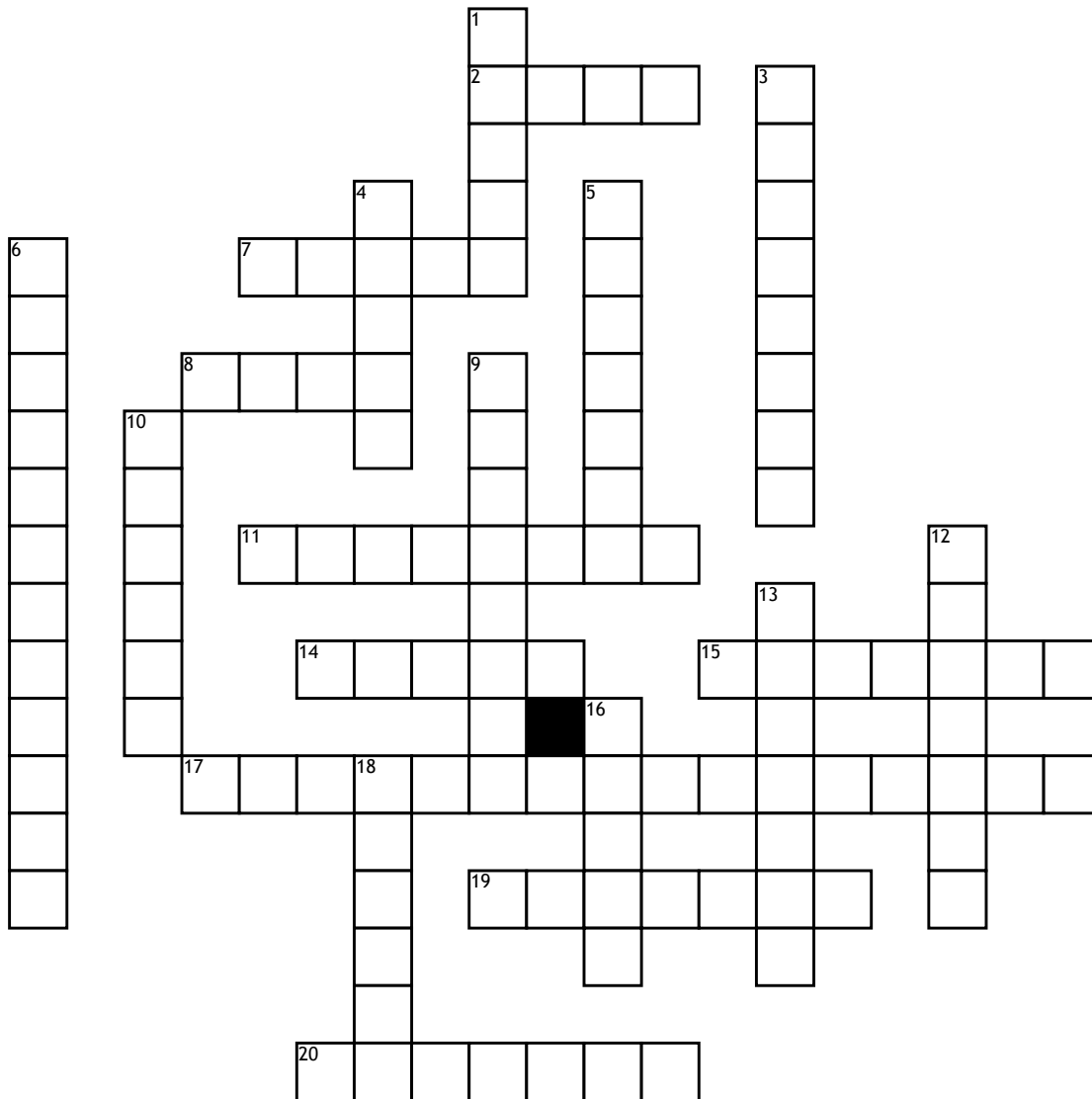


# Forces and Motion



**Across**

- 2. A force is a push or \_\_\_\_\_
- 7. For every action, there is an equal and opposite reaction, this is newtons \_\_\_\_\_ law
- 8. acceleration of an object depends on force and \_\_\_\_\_ of an object
- 11. the speed an object has in a given direction
- 14. Air resistance is an example of \_\_\_\_\_ friction
- 15. When a ball rolls on top of a counter, it is an example of \_\_\_\_\_ friction
- 17. the constant speed that a freely falling object eventually reaches when the resistance of the medium through which it is falling prevents further acceleration

19. When a piece of paper is slid on top of a counter, its an example of \_\_\_\_\_ friction

20. a property of matter by which it continues in its existing state of rest or in a straight line

**Down**

- 1. The rate an object moves at
- 3. sir isaac newton was born \_\_\_\_\_ 25, 1642
- 4. An object at rest will stay at rest, unless acted on by an outside force, is newtons \_\_\_\_\_ law
- 5. \_\_\_\_\_ force is any force that requires contact to occur
- 6. the rate of change of velocity
- 9. the resistance that objects encounter when rubbing against eachother

10. \_\_\_\_\_ friction is a type of friction is applied to an object that isn't moving

12. \_\_\_\_\_ friction is a type of friction that occurs when two surfaces slide over each other

13. \_\_\_\_\_ friction is a type of friction that is produced when a circular object rolls over another

16. \_\_\_\_\_ friction is a type of friction that happens when an object moves through a liquid or gas

18. sir isaac newton invented three laws of \_\_\_\_\_