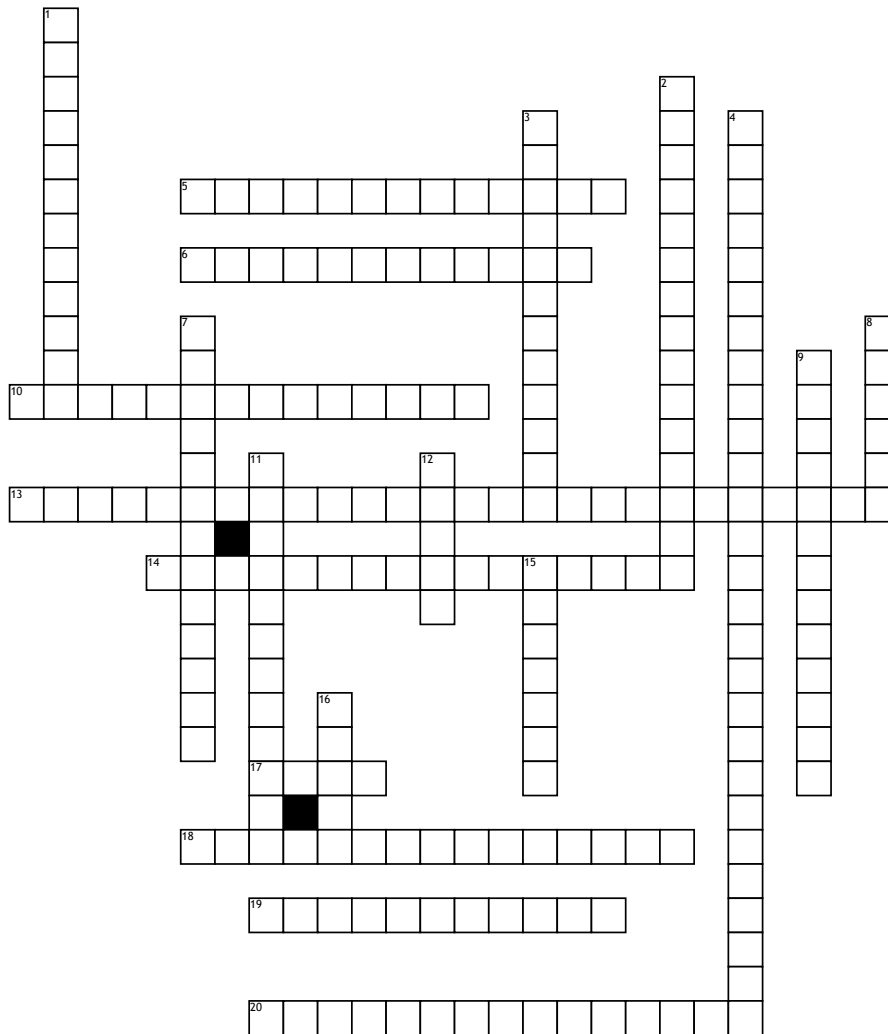


Newton's Laws and Forces + W,P,E



Across

5. a force that can cause work to be done, which is the transfer of energy
 6. does not interact with the environment and has no outside forces.
 10. forces between objects within a system, can do work as well
 13. $m \cdot g \cdot h$
 14. law of acceleration

Word Bank

work
 closed system
 kinetic energy
 newtons
 force
 acceleration
 equation for newtons second law

17. the result of a force causing an object to have displacement
 18. F_f
 19. Joules
 20. every action has an equal opposite reaction

Down

1. change in velocity over time
 2. an object in motion stays in motion and an object at rest stays at rest unless a force is acted upon it

newton's first law
 unit for work
 unit for power
 work equation
 power
 energy
 equation for potential energy

3. $f \cdot d$
 4. $m \cdot a$
 7. the energy associated with the movement of an object
 8. quantitative measurement of the ability to do work
 9. $f \cdot d / t$
 11. watts
 12. the rate at which work is done
 15. force is measured in
 16. a push or a pull

force of friction
 power equation
 newtons second law
 newtons third law
 internal forces
 external force