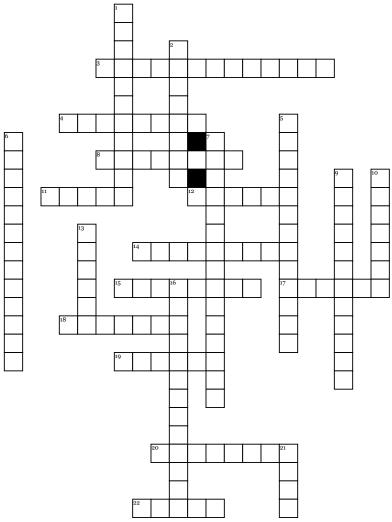
Newton's Laws of Motion



Across

- **3.** the force of air pushing against a moving object
- **4.** the overall force on an object when all forces acting on it are added together
- **8.** the force another object exerts on another
- 11. a push or pull
- **12.** the force of gravity on an object
- **14.** a number that tells how much of something there is
- **15.** for every action there is an equal and opposite reaction

vector

17. the ability to produce change

- **18.** the tendency of an object to resist a change in motion
- **19.** a quantity that has both size and direction
- 20. mass multiplied by velocity
- **22.** the distance an object travels per unit of time

Down

- 1. the name often given to the force exerted by the first object on a second object
- 2. speed in a given direction
- **5.** energy that an object has due to its motion

- **6.** the overall force has zero force on an object
- 7. stored energy that results from the position or shape of an object
- **9.** a change in velocity
- 10. a force that pulls objects towards each other
- **13.** the act of movement
- **16.** the name often given to the force exerted by the second object back on the first object
- 21. the amount of matter in an object

Word Bank

air resistance

acceleration velocity	magnitude motion	gravity weight	friction net force	action force third law
mass	force	inertia	kinetic energy	momentum
speed	energy	potential energy	reaction force	balanced force