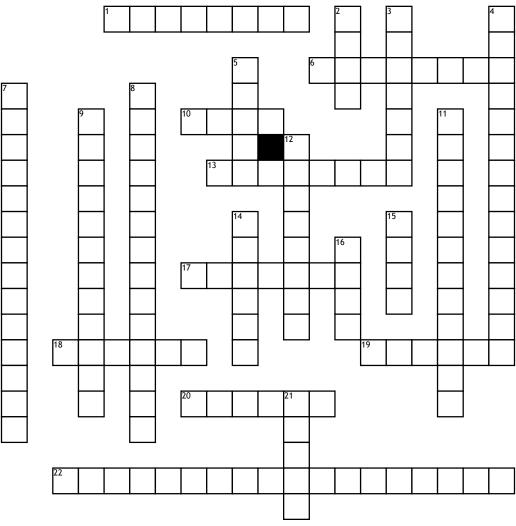
Name: ______ Date: _____

Force and Motion



Across

- the force that opposes motion between two surfaces that are touching
 forces that are equal and opposite
- in direction

 10. the transfer of energy from one object to another
- 13. the rate at which displacement changes with respect to time
- 17. the tendency of a body to maintain its state of rest unless acted upon by an external force
- **18.** unit of force
- 19. a continuous change in position

- **20.** the force that moves an object forward
- **22.** the speed of an object at any instant of time

<u>Down</u>

- he force that slows an object down
 the invisible force of attraction between all masses in the universe (pull)
- 4. an object with an unbalanced force acting on it will accelerate in the
- direction of that force...f=m(a); force = mass times acceleration
- **5.** push or pull exerted on an object

- 7. an object at rest stays at rest and an object in motion stays in motion unless acted on by an unbalanced force
- **8.** or every action there is an equal and opposite reaction
- **9.** the total distance traveled divided by the total time traveled
- **11.** the rate at which velocity changes over time
- **12.** n) the force with which something moves
- 14. the ability to do work
- 15. upward force on an object
- **16.** the amount of matter in an object
- 21. the rate at which distance changes with respect to time

Word Bank

force 1st law of motion motion friction mass 2nd law of motion 3rd law of motion newton instantaneous speed speed lift acceleration balanced work drag inertia velocity energy thrust gravity average speed momentum