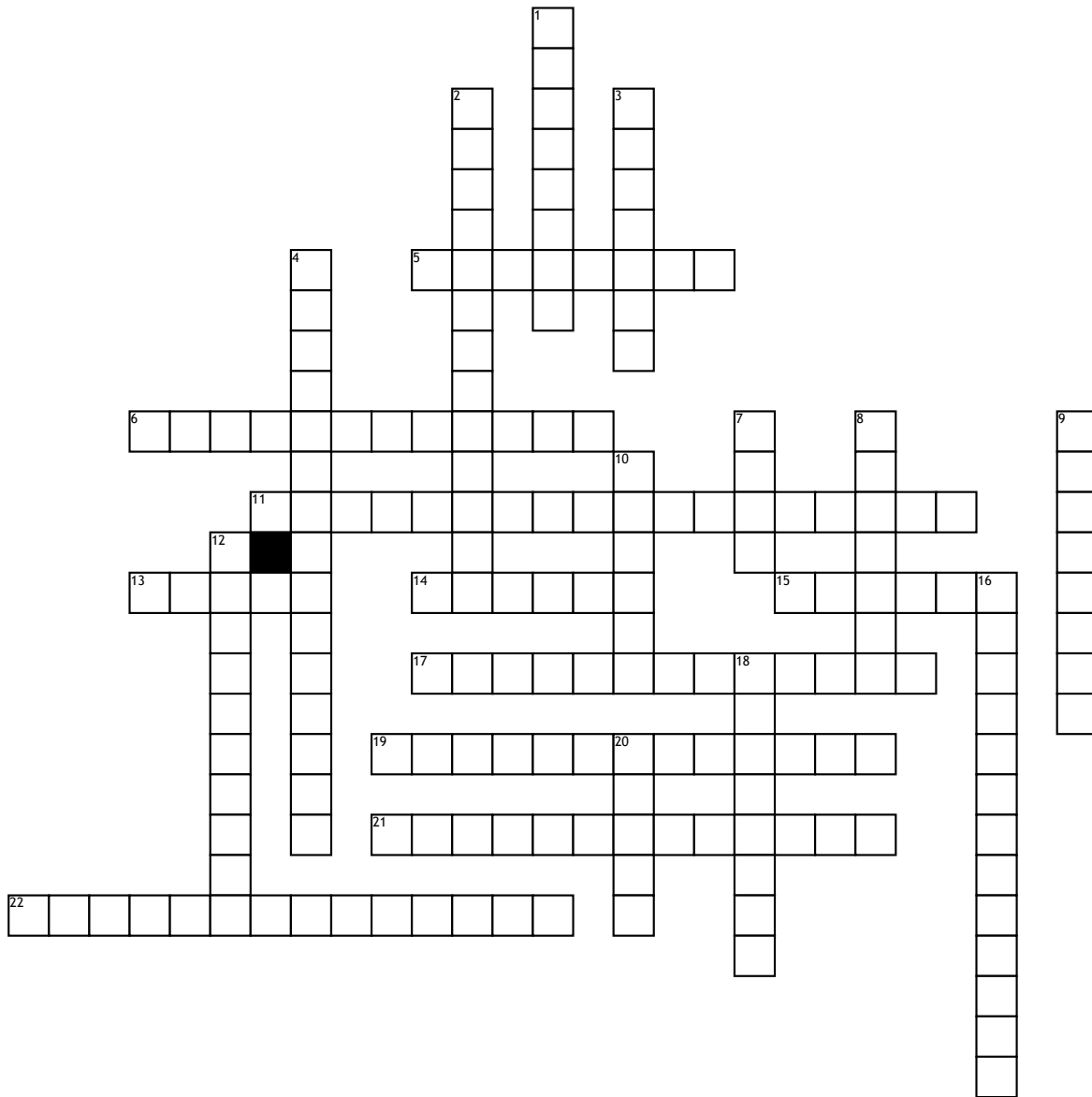


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Motion, Forces and Energy



## Across

5. speed in a given direction  
 6. rate at which velocity changes  
 11. rate at which an object is moving at a given instant in time  
 13. push or pull on an object  
 14. force of gravity on a person/object  
 15. when one object's distance from another is changing  
 17. acceleration depends on an object's mass and the net force acting on the object  
 19. an object at rest will stay at rest and an object in motion will stay in motion

21. equal forces acting on an object in OPPOSITE directions  
 22. object that is used to determine if something is in motion

## Down

1. force that 2 surfaces exert on each other when they rub against each other  
 2. fluid friction on objects falling through the air  
 3. force that pulls objects toward each other  
 4. cause an object to start moving, stop moving, or change direction  
 7. amount of matter in an object

8. tendency of an object to resist a change in motion

9. product of an object's mass and velocity  
 10. SI unit that measures strength of force  
 12. an object that is thrown  
 16. for every action there is an equal but opposite reaction  
 18. combination of ALL forces acting on the object  
 20. distance an object travels in a given unit of time