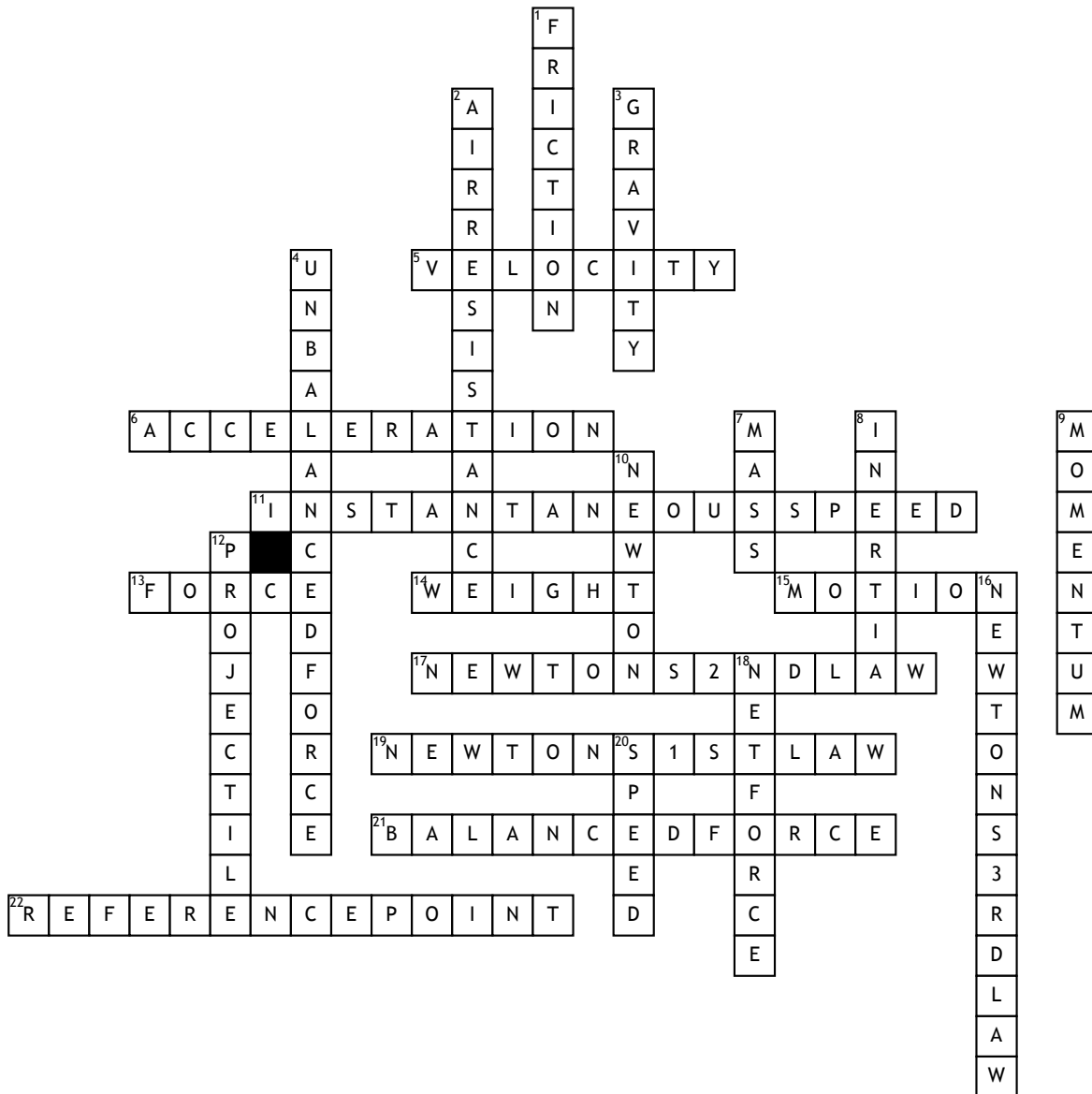


Motion, Forces and Energy



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