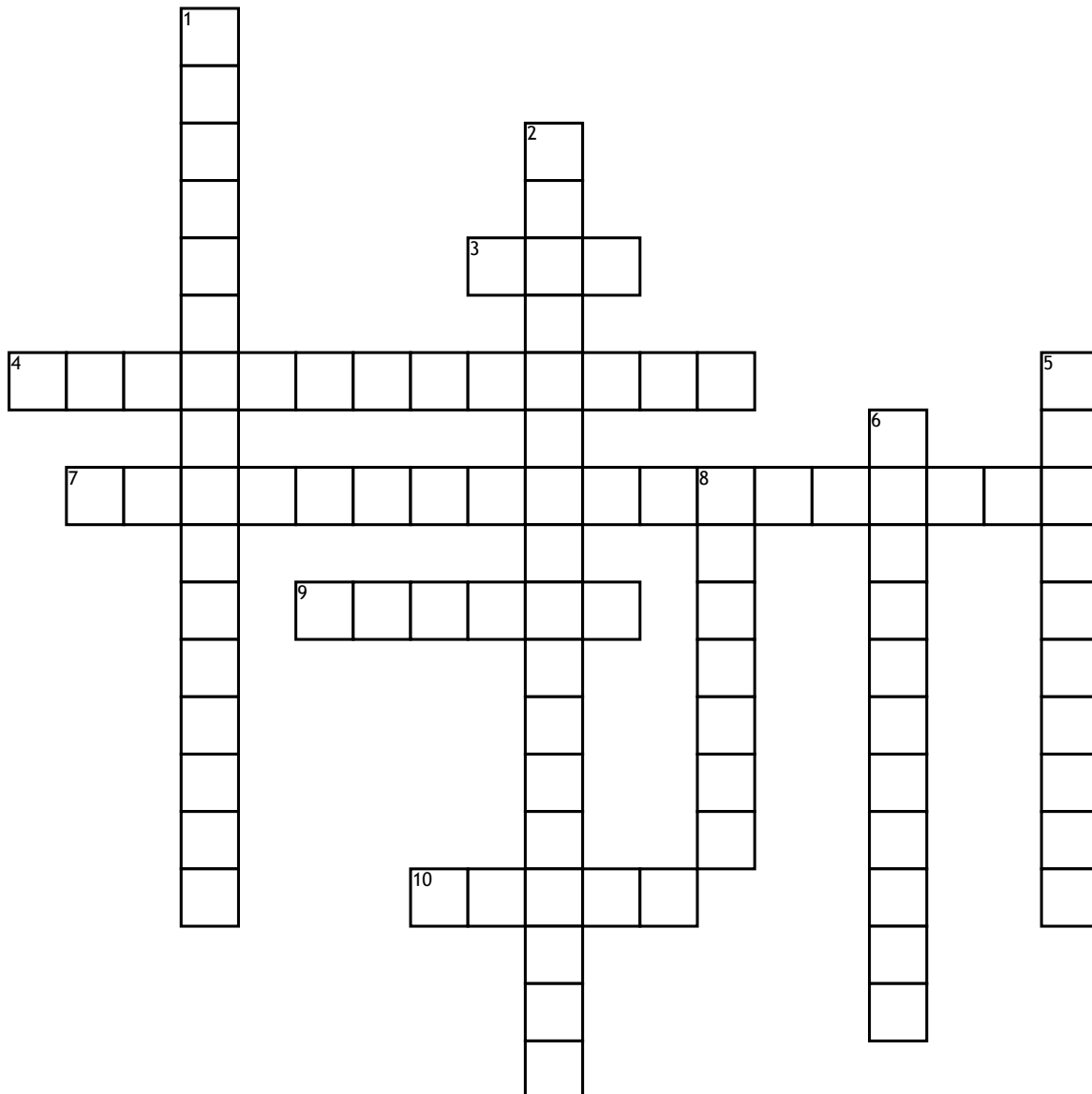


APPLICATIONS of FORCES



Across

3. motion with a constant acceleration
 4. a heavy, movable mass that balances another mass
 7. can be used in resolving vectors
 9. a force that acts to produce a rotation
 10. an action, like a push or pull, that causes a change in motion

Down

1. a frame of reference for an observation or a vector diagram

2. the state of an object when vector sum of all forces acting on it, and the sum of all the torques is zero
 5. are parts of a vector that lie on the axes of a coordinate system
 6. the force pressing two surfaces together perpendicular to the plane of the surfaces
 8. the magnitude of the force exerted on and by a cable, rope or string