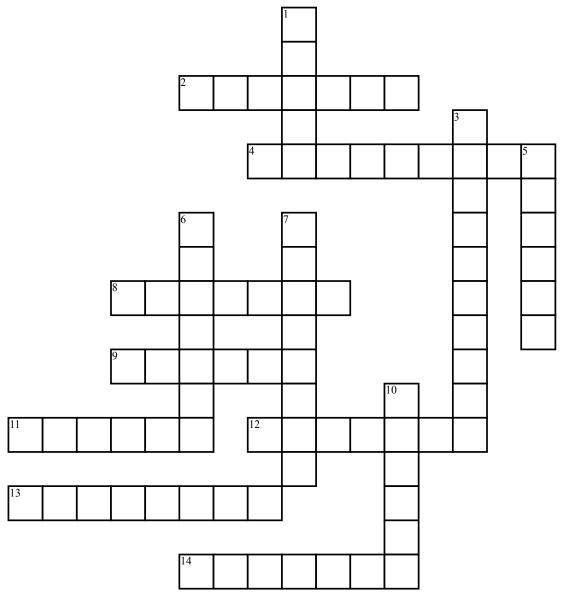
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Newtons second and third laws



Across

- 2. ____ is the resistance of any physical object to any change in its state of motion
- 4. _____ is an area of science concerned with the behaviour of physical bodies when subjected to forces or displacements
- **8.** The type of friction that identifies how much force is needed to keep an object moving
- **9.** The force of gravity on the object **11.** The SI unit of force.
- 12. _____ is the tendency of a force to rotate an object around an axis, fulcrum, or pivot.

- 13. _____ is a branch of applied mathematics concerned with the study of forces and torques and their effect on motion
- **14.** The concept that everything is pulled towards the centre of the earth

Down

- 1. ____ is any interaction that, when unopposed, will change the motion of an object
- 3. ______ is the branch of classical mechanics which describes the motion of points, bodies, and systems of bodies without consideration of the masses of those objects nor the forces that may have caused the motion.

- **5.** The friction that identifies how much force is needed to get an object moving
- **6.** ____ is the pulling force transmitted axially by means of a string, cable, chain, or similar one-dimensional continuous object
- 7. The force resisting the relative motion of solid surfaces, fluid layers, and material elements sliding against each other.
- 10. A ____ is a machine consisting of a wheel over which a pulled rope or chain runs to change the direction of the pull used for lifting a load