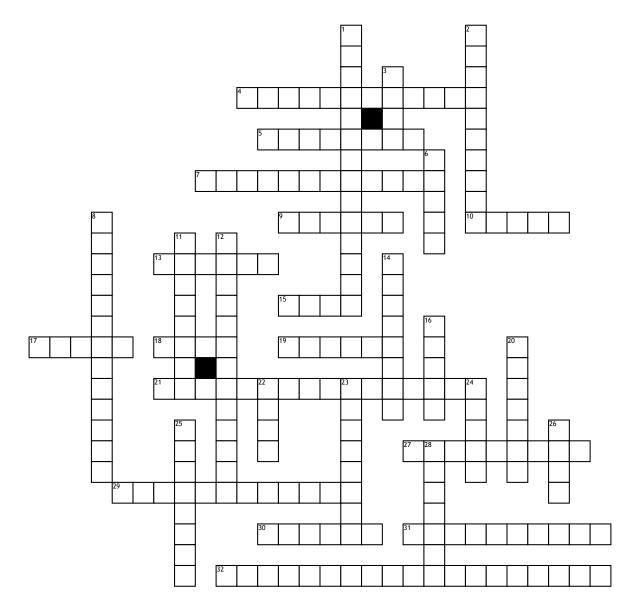
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Fast and Furious Forces



Across

- **4.** Distance and direction of an objects change in position of its starting point
- 5. Speed in a given direction (v=d/t)
- 7. A simple machine that consists of two attached circular or cylindrical objects that rotate about a common axis, each one with a different radius
- **9.** The force of energy that is applied to a machine for the accomplishment of useful work
- **10.** A simple machine that is an inclined plane that moves
- **13.** An object's change in position over time when compared with a reference point
- **15.** A measure of how much matter is in an object
- **17.** A simple machine that is an inclined plane wrapped around a central cylinder to form a spiral
- **18.** An interval separating two points of this quantity; duration
- 19. A measure of force Gravity has on an object

- **21.** Forces that produce a nonzero net force, which changes and objects motion
- **27.** The angle of movements from the resting point
- 29. The rate at which velocity changes
- **30.** A simple machine that consists of a wheel over which a rope, chain, or wire passes
- 31. Not moving; not changing
- 32. The number of times a machine increases a force exerted on it (output force/ input force)

Down

- Equal forces acting on an object in opposite directions
- 2. The law of inertia, object in motion will stay in motion unless acted upon by an outside force
- **3.** Put something in resting position, as for support or steadying
- **6.** A simple machine that consists of a rigid bar that pivots about a fixed point
- **8.** A simple machine that is a flat, sloped surface

- 11. The location of an object compared to a reference point
- 12. Device that can make a tough job easier by enabling a person to apply less force or to apply force in a direction that is easier tomanipulate
- **14.** A force that one surface exerts on another when the two surfaces rub against each other
- 16. A push or pull exerted on an object
- 20. A force that pulls objects toward each other
- 22. A bar or shaft on which a wheel turns
- 23. How far an object has traveled
- **24.** The distance an object travels per unit of time
- 25. The product of an object's mass and velocity
- **26.** Force exerted on an best that causes it to move
- **28.** The tendency of an object to resist any change in its motion