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Force and Motion

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| **Across****2.**  any interaction that, when unopposed, will change the motion of an object**4.** a group of objects from which you can measure an object's position or motion**11.**  the object is supposed to cover equal distances in equal intervals of time**14.** describes the movement of an object**15.** the rate at which an object changes position**20.** a force that acts at the point of contact between two objects**22.** Do not cause a change in motion- when balanced forces act on an object at rest, the object will not move**23.** the feel, appearance, or consistency of a surface or a substance**24.** a force applied to an object by another body that is not in direct contact with it**25.** a dimensionless quantity representing the amount of matter in a particle or object**26.** Forces that cause a change in the motion of an object | **Down****1.** the product of mass multiplied by velocity**3.** the resistance that one surface or object encounters when moving over another**5.** a physical phenomenon produced by the motion of electric charge, resulting in attractive and repulsive forces between objects**6.**  increase of speed or velocity**7.** the power to float or rise in a fluid**8.** a change in the position of an object**9.** a force that is caused by air that acts in the opposite direction to an object **10.** The total area of the surface of a three-dimensional object**12.** a system of units for expressing heaviness or mass**13.** the process or technique employed to reduce friction between, and wear of one or both, surfaces in proximity and moving relative to each other**16.** location of an object**17.** the property of matter by which it retains its state of rest or its velocity along a straight line so long as it is not acted upon by an external force**18.** the force that attracts a body toward the center of the earth, or toward any other physical body having mass**19.** the speed and direction an object is moving**21.** how far an object moves during a certain amount of time |