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in physics a force is an influence that can change the motion of an object a force can cause an object with mass to change its velocity e g moving from a state of rest i e to accelerate force can also be described intuitively as a push or a pull a force has both magnitude and direction making it a vector quantity it is measured in the si unit of newton n forces 2 of 2 noun plural of force 1 as in workforces a body of persons at work or available for work the entire force of the shipyard will be needed to get this government order done on time synonyms similar words workforces staffs manpowers personnels pools labor forces crews help teams companies squads employees workers staves proletariats forces that act through spaces without making direct contact with the body are called non contact forces examples of non contact forces are gravitational force electrostatic force magnetic force the force exerted by a magnet on other magnets is called magnetic force magnetic force and electrostatic force act on an object from a distance 1 a 1 strength or energy exerted or brought to bear cause of motion or change active power the forces of nature the motivating force in her life 2 capitalized used with a number to indicate the strength of the wind according to the beaufort scale a force 10 hurricane b unit forces and newton s laws of motion 300 possible mastery points skill summary newton s laws of motion quiz 5 questions practice what you ve learned and level up on the above skills normal force and contact force balanced and unbalanced forces slow sock on lubricon vi inclined planes and friction tension treating systems dec 23 2021 electromagnetic forces are transferred between charged particles through the exchange of massless force carrying bosons called photons which are also the particle components of light jan 20 2020 one of the most important concepts in physics force is anything that causes an object motion or change of its velocity force can be described in simple language as push or pull upon an object which results to its interaction with another object force is divided into two major broad categories contact force and action at a distance forces a force is a push or pull acting upon an object as a result of its interaction with another object there are a variety of types of forces previously in this lesson a variety of force types were placed into two broad category headings on the basis of whether the force resulted from the contact or non contact of the two interacting objects 1 the capacity to do work or cause physical change energy strength or active power the force of an explosion 2 a power made operative against resistance exertion use force in driving a nail b the use of physical power or violence to compel or all the forces in the universe can be explained in terms of the following four fundamental interactions gravity the interaction between objects due to their mass weight is a synonym for the force of gravity electromagnetism the interaction between objects due to their charge all the forces discussed above are electromagnetic in origin except weight

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