

Epub free Simple machines and energy study guide (PDF)

a machine cannot increase the amount of energy you put into it so why is a simple machine useful although it cannot change the amount of work you do a simple machine can change the amount of force you must apply to an object and the distance over which you apply the force although we often hear people talking about energy consumption energy is never really destroyed it is just transferred from one form to another doing work in the process some forms of energy are less useful to us than others for example low level heat energy simple machines are tools with few or no moving parts that change the magnitude or direction of a force basically they multiply force and make work easier here is a look at the types of simple machines how they work and their uses what is hooke s law what is elastic potential energy this unit is part of the physics library browse videos articles and exercises by topic the most common forms of energy are kinetic energy the energy of motion potential energy stored energy that is available for later release to do work and radiant energy electromagnetic energy transmitted in wave form let s see how physicists define the term work and how work relates to the concepts of kinetic energy potential energy conservation of energy and mechanical advantage simple machines are devices that can be used to multiply or augment a force that we apply often at the expense of a distance through which we have to apply the force the ratio of output to input forces for any simple machine is called its mechanical advantage a few simple machines are the lever nail puller wheelbarrow crank etc machine device having a unique purpose that augments or replaces human or animal effort for the accomplishment of physical tasks this broad category encompasses such simple devices as the inclined plane lever wedge wheel and axle pulley and screw the so called simple machines as well as mechanical energy sum of the kinetic energy or energy of motion and the potential energy or energy stored in a system by reason of the position of its parts mechanical energy is constant in a system that has only gravitational forces or in an otherwise idealized system that is one lacking a simple machine is a physical device that changes the magnitude or direction of a force it should be noted that these machines do nothing to change the amount of energy used just how hard it is to use that energy a simple machine is an elementary mechanical device with a specific mechanism that changes the direction or magnitude of a force these simple machines have no internal source of energy and create a greater output force than the input force the ratio of these forces is the mechanical advantage of the machine simple machines are devices with no or very few moving parts that make work easier many of today s complex tools are just combinations or more complicated forms of the six simple machines machines and energy students learn to determine the mechanical advantage and efficiency of machines and to define give the mks unit for and calculate power machines are made by humans to make our work simpler as we are powered by the food we eat to work even the machines require energy to work they receive this energy by burning fuel which we provide them over here machines are dependent on the fuel to provide them energy for typical manufacturing processes such as metallic part production by machining energy consumption is closely related to the material removal rates which is determined by the material properties and machine settings e g cutting speed depth of cut feed rate clearance angle etc electrical machinery fifth edition the exciting new soil processes and the

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