## Work, Energy, and Simple Machines Study Guide

where chemical energy is converted to electrical energy  energy  the ability to do work, (to make an object move or to change matter)  kinetic energy  potential energy  transferred energy  when energy passes from one object to another  the use of force to move an object a certain distance  chemical energy  energy stored in particles of food and other fuels  electrical energy  energy related to movement of charged particles  mechanical energy  thermal energy  heat energy; depends on motion of tiny particles in matter  muclear energy  energy that comes from split or joined atoms  A combination of two or more simple machines  Ex. bicycles, scissors, can openers  effort force  the amount of force needed to do work. Applied force  inclined plane  a machine made up of only a flat slanted surface Ex. range  lever  a machine made up of a bar and a fulcrum Ex. screwdriver  load  the object being moved by a machine  pulley  a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw  an inclined plane twisted into a spiral  simple machine  something that has only a few parts & makes it easier to do work  wedge  two inclined planes back to back  a machine made up of a wheel that turns on a center bar		
kinetic energy energy of motion that is found in moving objects  stored energy  transferred energy  the use of force to move an object a certain distance  chemical energy energy stored in particles of food and other fuels  electrical energy energy related to movement of charged particles  light energy energy of sun or other light sources  mechanical energy heat energy; depends on motion of tiny particles in matter  muclear energy energy that comes from split or joined atoms  compound machine A combination of two or more simple machines  Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	battery	where chemical energy is converted to electrical energy
potential energy stored energy  transferred energy when energy passes from one object to another  work the use of force to move an object a certain distance  chemical energy energy stored in particles of food and other fuels  electrical energy energy related to movement of charged particles  light energy energy of sun or other light sources  mechanical energy sum of potential and kinetic energy  thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound A combination of two or more simple machines  Ex. bicycles, scissors, can openers  the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	energy	the ability to do work, (to make an object move or to change matter)
transferred energy when energy passes from one object to another  work the use of force to move an object a certain distance  chemical energy energy stored in particles of food and other fuels  electrical energy energy related to movement of charged particles  light energy energy of sun or other light sources  mechanical energy sum of potential and kinetic energy  thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound machine Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	kinetic energy	energy of motion that is found in moving objects
the use of force to move an object a certain distance  chemical energy energy stored in particles of food and other fuels  electrical energy energy related to movement of charged particles  light energy energy of sun or other light sources  mechanical energy sum of potential and kinetic energy  thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound achine Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	potential energy	stored energy
chemical energy energy stored in particles of food and other fuels  electrical energy energy related to movement of charged particles  light energy energy of sun or other light sources  mechanical energy sum of potential and kinetic energy  thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound actions  A combination of two or more simple machines  Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	transferred energy	when energy passes from one object to another
electrical energy energy related to movement of charged particles  light energy energy of sun or other light sources  mechanical energy sum of potential and kinetic energy  thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound A combination of two or more simple machines  Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work wedge two inclined planes back to back	work	the use of force to move an object a certain distance
light energy energy of sun or other light sources  mechanical energy sum of potential and kinetic energy  thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound A combination of two or more simple machines Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	chemical energy	energy stored in particles of food and other fuels
mechanical energy sum of potential and kinetic energy  thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound A combination of two or more simple machines Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	electrical energy	energy related to movement of charged particles
thermal energy heat energy; depends on motion of tiny particles in matter  nuclear energy energy that comes from split or joined atoms  compound energy has comes from split or joined atoms  compound machine Ex. bicycles, scissors, can openers  effort force the amount of force needed to do work. Applied force  inclined plane a machine made up of only a flat slanted surface Ex. range  lever a machine made up of a bar and a fulcrum Ex. screwdriver  load the object being moved by a machine  pulley a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work wedge two inclined planes back to back	light energy	energy of sun or other light sources
nuclear energy energy that comes from split or joined atoms    Compound machine	mechanical energy	sum of potential and kinetic energy
compound machine       A combination of two or more simple machines         effort force       the amount of force needed to do work. Applied force         inclined plane       a machine made up of only a flat slanted surface Ex. range         lever       a machine made up of a bar and a fulcrum Ex. screwdriver         load       the object being moved by a machine         pulley       a fixed or moveable machine used to change the direction or amount of force needed to move an object         screw       an inclined plane twisted into a spiral         simple machine       something that has only a few parts & makes it easier to do work         wedge       two inclined planes back to back	thermal energy	heat energy; depends on motion of tiny particles in matter
Ex. bicycles, scissors, can openers  the amount of force needed to do work. Applied force  inclined plane  a machine made up of only a flat slanted surface Ex. range  lever  a machine made up of a bar and a fulcrum Ex. screwdriver  load  the object being moved by a machine  pulley  a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw  an inclined plane twisted into a spiral  simple machine  something that has only a few parts & makes it easier to do work  wedge  two inclined planes back to back	nuclear energy	energy that comes from split or joined atoms
inclined plane  a machine made up of only a flat slanted surface Ex. range  lever  a machine made up of a bar and a fulcrum Ex. screwdriver  the object being moved by a machine  pulley  a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw  an inclined plane twisted into a spiral  simple machine  something that has only a few parts & makes it easier to do work  wedge  two inclined planes back to back	1	·
/ever       a machine made up of a bar and a fulcrum Ex. screwdriver         /oad       the object being moved by a machine         pulley       a fixed or moveable machine used to change the direction or amount of force needed to move an object         screw       an inclined plane twisted into a spiral         simple machine       something that has only a few parts & makes it easier to do work         wedge       two inclined planes back to back	effort force	the amount of force needed to do work. Applied force
the object being moved by a machine  pulley  a fixed or moveable machine used to change the direction or amount of force needed to move an object  screw  an inclined plane twisted into a spiral  simple machine  something that has only a few parts & makes it easier to do work  wedge  two inclined planes back to back	inclined plane	a machine made up of only a flat slanted surface Ex. range
a fixed or moveable machine used to change the direction or amount of force needed to move an object  an inclined plane twisted into a spiral  simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	lever	a machine made up of a bar and a fulcrum Ex. screwdriver
amount of force needed to move an object  Screw an inclined plane twisted into a spiral  Simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	load	the object being moved by a machine
simple machine something that has only a few parts & makes it easier to do work  wedge two inclined planes back to back	pulley	•
wedge two inclined planes back to back	SCrew	an inclined plane twisted into a spiral
	simple machine	something that has only a few parts & makes it easier to do work
wheels & axles a machine made up of a wheel that turns on a center bar	wedge	two inclined planes back to back
	wheels & axles	a machine made up of a wheel that turns on a center bar