

ENERGY TRANSFORMATIONS

☞ Identify a device, phenomenon, process, or event whereby one form of energy is transformed into another.

from ↓ to →	mechanical	gravitational	elastic	heat	electric & magnetic	electromagnetic radiation	chemical	nuclear
mechanical								
gravitational								
elastic								
heat								
electric & magnetic								
electro- magnetic radiation								
chemical								
nuclear								

ENERGY TRANSFORMATIONS

☞ Identify a device, phenomenon, process, or event whereby one form of energy is transformed into another.

from ↓ to →	mechanical	gravitational	elastic	heat	electric & magnetic	electromagnetic radiation	chemical	nuclear
mechanical	elastic collision gears	pop fly lob pendulum	wishbone inflating a balloon	brakes	generator microphone	X-ray tube flint		
gravitational	free fall rivers pendulum	one period of satellite orbit one period of SHO	diving board	contraction of a protostar	hydroelectricity			formation of a neutron star
elastic	spring-driven wristwatch bow & arrow wishbone	trampoline toaster	Newton's balls	compression of a gas refrigerator bicycle pump	piezoelectric effect	piezo- luminescence		
heat	heat engines wind ocean currents radiometer	convection hot air balloon popcorn	bimetallic strip contracted rubber band is cold		thermoelectric effect thermionic emission	incandescence "red hot" objects	endothermic reactions "cold packs"	
electric & magnetic	motor speaker thunder	elevator	electrostriction magnetostriction	electric heater toaster	transformer	radio broadcast light bulb LED	electrolysis electroplating rechargeable batteries	
electro- magnetic radiation	photoelectric effect	microwave popcorn		solar collector microwave oven	solar cell electric eye	fluorescence	photosynthesis photography sunburn	
chemical	combustion engines muscle action dynamite	rocket	combustion expands a gas	exothermic reactions "hot packs" combustion	batteries fuel cells	bio- luminescence fireflies glow sticks	glycolysis AMP to ADP ADP to ATP	
nuclear	fission emission	nuclear propulsion		nuclear reactor	nuclear generator	stars		breeder reactor