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Kinetic Energy	Thermal Energy	Nuclear Fission	Nuclear Fusion
Kinetic Energy is the energy possessed by a moving object.	Thermal energy is energy due to the movement of particles inside a substance.The more movement, the more thermal energy.	Nuclear Fission occurs when a heavy atom is struck by a nucleus, causing it to break apart into smaller, more stable atoms. By	Nuclear Fusion is the process of taking small, stable atoms, and fusing them to create larger, less stable atoms. By doing this, energy
Equation= Ek=1/2mv ²			
Potential Energy	Equation: Q=m·c·ΔT	doing this, it releases a lot of energy.	is produced. No nuclear waste results from this transformation.
Potential Energy is the energy of an object due to its height above the ground.	Nuclear Energy	Decay	Thermal Energy Transfer
Equation: Ep= m·g·∆h	nucleus of an atom and keeps the protons together.	Alpha Decay	Thermal energy moves from hotter objects to colder objects. The transfer of thermal energy is known
Latent Heat The total thermal energy absorbed	Law of Conservation of Energy Energy can neither be created nor	Beta Positive Decay as heat. A proton becomes a neutron and a positron and the positron is emitted. QHot_=-QCold Beta Negative Decay A neutron becomes a proton and an electron, and the electron is emitted.	as heat.
or released when a substance changes state, measured in joules	destroyed.		
Q=m·l	ET1=ET2		
Work	Power The rate of transforming energy or doing work		
Mechanical work is the application of a force on an object that		Electron capture	
displaces the object in the direction of the force or a component of the force.	P=W/T	An electron is capture by an atom, resulting in a proton and electron forming a neutron.	
W=F·Δd		Gamma Decay A photon is emitted.	



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