Interconversion of Energy

Published by Garland Publishing, a member of the Taylor & Francis Group.

raised brick has potential energy due to pull of gravity
falling brick has kinetic energy
heat is released when brick hits the floor

potential energy due to position → kinetic energy → heat energy

two hydrogen gas molecules + oxygen gas molecule → rapid vibrations and rotations of two newly formed water molecules → heat dispersed to surroundings

chemical bond energy in H₂ and O₂ → rapid molecular motions in H₂O → heat energy

battery → fan motor → wires → fan

chemical bond energy → electrical energy → kinetic energy

sunlight → chlorophyll molecule → chlorophyll molecule in excited state

electromagnetic (light) energy → chemical bond energy