

AQA Physics Paper 1 Final Test

Questions With Correct Answers 2023

Energy is transferred between stores - Answer Thermal, kinetic, gravitational potential, elastic potential, chemical, magnetic, electrostatic, nuclear

Energy is transferred... - Answer Mechanically (by a force doing work), electrically (work done by moving charges), by heating or by radiation (like light or sound)

When a system changes, energy is transferred - Answer It can be transferred into or away from the system, between objects in the system or between different types of energy stores. Closed systems are where neither matter nor energy can enter or leave. The net change in the total energy of a closed system is always 0

kinetic energy - Answer energy of motion - the greater an object's mass and the faster it is going, the more energy there will be in its kinetic energy store. $E_k (j) = 1/2 m(kg) v(m/s)^2$

Raised objects store energy in gravitational potential energy stores - Answer lifting an object in a gravitational field requires work, causing an energy transfer to the GPE store of the object. $E_p(j) = m(kg) g(n/kg) h(m)$

Falling objects transfer energy - Answer Falling objects transfer energy from its GPE store to its kinetic energy store. When there's no air resistance, energy lost from the GPE store = energy gained in the kinetic energy store

Stretching transfers energy to elastic potential energy stores - Answer As long as the limit of proportionality has not been exceeded, $E_e (j) = 1/2 k (N/m) e (m)^2$

specific heat capacity - Answer the energy required to raise the temperature of one gram of a substance by one degree Celsius. $E (j) = m(kg) c(j/kg^{\circ}C) \Delta\theta$ (degrees Celsius)

Conservation of energy principle - Answer Energy can be transferred but can never be created or destroyed

Dissipated energy - Answer energy used up in a system, typically lost due to work done by friction, 'wasted energy'

Phone energy - Answer When you use the phone, energy is usefully transferred from the chemical energy store of the battery in the phone, but some of this energy is dissipated to thermal energy

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Misra, Sanjay, Adewumi, Adewole



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