PhysChem Revision Questions

\*Newtons law of universal gravitation states that the force is proportional to the masses and inversely proportional to the product of square of the distance.

\*Mass differs to weight due to fact that mass represents the size of something whilst weight represents how heavy it is.

\*The acceleration between B and C is 3.5ms-1.

\*The distance travelled between C and D is 14m.

\*A joule moves something with a force of 1 newton by 1 meter. (1J =1N)

\*f = Eh. 1.5(10(-15)) / (6.6(10(-34))) = 2.27(x10(18))

\* The conversion of light into electrons happens during photoelectricity when a UV light is shined upon a metal.

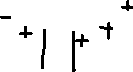
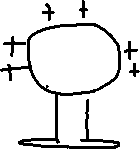
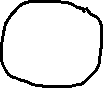
\* Boyles Law states that the pressure of a fixed mass of gas is inversely proportional to the volume at a constant temperature.

\*A standard thermometer is necessary to calibrate the pressure of the gas

\*The kinetic theory states that gas moves rapidly and randomly.



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\*A device based on the carrying principle that a current carrying conductor in a magnetic field experience a force is a wire.

\*C=q/V. The charge is inversely proportional to the voltage.

\*The effect of a parallel plate capacitor of increasing the distance in the plates is that the voltage will reach the fuse at a longer range.

\*The effect of a parallel-plate capacitor of increasing the common area of the plates is that the mass will be bigger, allowing for the charge to be greater.

\*The name given to that type of nuclear reaction is fission. It is used to make electricity.

\*The type of electromagnetic radiation that can be emitted from a radioactive nucleus is gamma rays.

2017 Questions

\*m(1)u(1) + m(2) u(2) = m(1)v(1) +m(2) +v(2)

\*The principle of the conservation of momentum states that the momentum before a collision is equal to that after a collision when not acted upon by an external force.

\*Work=fs.

\*Work is a measurement of a force moving something.

\* O-A is the animal moving at uniform speed.

\*100/2 = 100, which is the speed.

\*Snells Law states that sin i/sin r is the refractive index.

\*The term for splitting up white light into its constituent colours when passed through a prism is dispertion. This phenomenon occurs due to the light being viewed in a dense medium.

\*Longitudinal waves are waves that the source of the wave and the direction of the energy travelled is the same.