stream of electrically charged particles passing through a given area (movement of electrons in a wire) A) Conductivity of **Solids** 1) Metals - contain many ______ electrons (good conductors) 2) Glass, fused quartz, rubber - good _____ Few free electrons Insulators have a High ______ - (Structural resistance to electrons flow) 3) <u>Semiconductor</u> - a material with a resistance _____ B) Conductivity of Liquids 1) pure liquids 2) liquid with dissolved _____ conduct ____ solution) (ion movement transfers charge not electrons) C) Conductivity of Gases Gases conduct when _____ exposed to: a) high energy radiation b) OR electric field C) OR with collision with high speed particles Charge in a gas is transferred by _____ plasma – very hot ionized gas D) Conditions for passing current 1) complete circuit _____ (voltage) supplied by some 2) _

ex. Battery generator

source

3) conductor