Electricity

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| **Across**  **4.** A material which permits a flow of energy  **6.** A type of energy that uses charged particles  **9.** A device that converts mechanical energy to electrical energy  **13.** The path of which electrical energy flows through  **18.** The unit used to measure the electrical resistance  **20.** Alternating Current  **21.** A flash of light in the sky caused by electrical discharge between clouds and the Earth's surface  **24.** To injure or kill someone by electric shock  **25.** One of 3 components needed for an electrical circuit  **27.** Lacking positive qualities  **29.** A closed circuit where the current follows one path  **30.** Used to measure the current in a circuit  **32.** A connection from a circuit to the earth (safety measure)  **33.** A point of connection on an electrical device (eg. Battery)  **34.** A device that reduces the flow of an electric current  **36.** The flow of electrons  **37.** A closed circuit where the current divides into two or more paths  **38.** A thin thread made of tungsten that glows when electric current flows through it | **Down**  **1.** To provide an amount of electricity to something  **2.** A defect in a circuit that causes the current to flow in the wrong direction  **3.** The unit used to measure electrical potential difference  **5.** A device that can start to stop flow of electricity in a circuit  **7.** Electricity that is not moving  **8.** A flash produced by electrical discharge  **10.** He proved that lightning was a from of electricity (Benjamin....)  **11.** A positively charged subatomic particle  **12.** A device used to transfer electrical energy from one circuit to another  **14.** Neither positive nor negative  **15.** The unit used to measure electric current  **16.** A cell that is a source of power  **17.** A metal that is a good conductor of electricity  **19.** A thin, flexible thread of metal  **22.** He discovered animal electricity (Luigi....)  **23.** Direct Current  **26.** A negatively charged subatomic particle  **28.** A material that prevents energy from easily passing through it  **31.** A safety device that cuts off an electric circuit if the current exceeds a safe level  **35.** A wire that activates a trap or light when disturbed |