

Vocabulary Cards

<p>atom</p>	<p>n. the smallest particle of a chemical element, consisting of a positively charged nucleus surrounded by negatively charged electrons.</p> <p>" Negative electrons and positive protons attract each other to keep the balance."</p>
<p>attraction</p>	<p>n. a force under the influence of which objects tend to move towards each other.</p> <p>" The force of attraction makes a magnet stick to the fridge".</p>
<p>balance</p>	<p>n. a condition in which different elements are equal or in the correct proportions.</p> <p>"When an atom has the same number of protons as of electrons, it is balanced, or neutral".</p>

<p>battery</p>	<p>n. a device containing one or more electrical cells, for use as a source of power.</p> <p>"Some toys are run by batteries".</p>
<p>circuit</p>	<p>n. a system of conductors and components forming a complete path for an electric current.</p> <p>"An electric circuit needs to be closed in order to work".</p>
<p>connect</p>	<p>v. join together so as to provide access and communication.</p> <p>"When all the parts of a circuit are connected, we say it is closed".</p>

<p>device</p>	<p>n. an invention serving a particular purpose, especially a machine used to perform one or more relatively simple tasks.</p> <p>“ A light bulb, a buzz, or a computer, are devices that can be connected to an electric circuit”.</p>
<p>electricity</p>	<p>n. a form of energy resulting from the existence of charged particles (such as electrons or protons), either statically as an accumulation of charge or dynamically as a current.</p> <p>“ We use electricity to light our houses, and play music”.</p>
<p>electron</p>	<p>n. a negatively charged particle found in all atoms and acting as the primary carrier of electricity.</p> <p>“When you rub a balloon against your hair, the electrons in your hair move to the balloon, and the balloon gets negatively charged”.</p>

<p>energy</p>	<p>n. the capacity to do work.</p> <p>"Energy makes our bodies work, plants grow, and the central heating in our homes work".</p>
<p>magnetic field</p>	<p>n. region around a magnet within which the force of magnetism acts.</p> <p>"The Earth is surrounded by magnetic fields, and so is a magnet".</p>
<p>magnetic pole</p>	<p>n. 1. each of the points near the extremities of the axis of rotation of the earth where a magnetic needle points. 2. each of the two points of a magnet to which the lines of magnetic force are directed.</p> <p>"The magnetic poles of a magnet and of the earth are called South pole and North pole".</p>

<p>mains</p>	<p>n. (the mains) public water, gas, or electricity supply through pipes or cables to our homes. The wall outlets for electricity.</p> <p>" The voltage coming from the mains of your home is 220 volts, and it's very dangerous".</p>
<p>parallel</p>	<p>n. (of electrical components or circuits) connected to common point at each end, so that the current is divided between them.</p> <p>"Parallel circuits are made with two wires running side by side".</p>
<p>proton</p>	<p>n. a particle in the nucleus of an atom, with a positive electric charge equal in magnitude to that of an electron.</p> <p>"When protons and electrons are the same number in an atom, the atom is neutral".</p>

<p>repulsion</p>	<p>n. a force which makes objects to move away from each other, e.g. through having the same magnetic polarity or electric charge.</p> <p>" Two positive atoms and two negative atoms experience repulsion".</p>
<p>search</p>	<p>n. try to find something by looking carefully and thoroughly.</p> <p>"Electrons travel through the electric current searching for protons".</p>
<p>series</p>	<p>n. (of electrical components or circuits) arranged so that the current passes through each component successively.</p> <p>"A circuit in series has a continuous circle of wire with the components connected to it".</p>

<p>switch</p>	<p>n. a device for making and breaking an electrical connection.</p> <p>"We add a switch to electric circuits to be able to turn on and off the electric current".</p>
<p>volt</p>	<p>n. the International System Unit of electric potential.</p> <p>"A 9 volt battery is safe to handle, but the mains voltage is much higher and dangerous".</p>
<p>wire</p>	<p>n. metal string, used for fencing, to carry an electric current, etc.</p> <p>"If the wires aren't properly connected to the battery, your circuit won't work."</p>

