## PルNTSTCS: ELECTRTClTVY KNOWLEDGE ORGANISER

Overview

-Electricity is a lype of energy
-It is used to power lots of different things, including many items that we use in everyday life.
-Electriciily can flow through wires and cables and can be stored in batteries (sometimes called cells).
-Electricity can flow in simple series electrical circuils.
-Some materials conduct electricily, and others do not (insulators).

Creation and Uses of Electricity


Electricity can be created in a number of different ways, for example:
Burning fossil fuels (oil, gas, etc.) in power stations;
-Using solar power generated from the sun:
-Using wind power grom wind turbines;
-Using water power (hydropower).
Electricily is used to power numerous household appliances, for example laptops, TVs, fridges, microwaves, toasters, ovens and lights/ lamps. Life would be very digferent without it!

| Simple Series Electric Circuils |  |
| :---: | :---: |
| This diagram shows a battery with wi | to a batteru (or cell). |
| Circuil <br> Current Battery (Cell) <br> Wire/Cable <br> Conductor/Insulator | -A circuit is the path the electric current follows. It must have no breaks in it (a closed circuil) for electricity to flow. <br> -A current is the electricity flowing through the circuit. -A battery (or cell) is something in which electricity can be stored. <br> - Wires and cables are thin glexible threads that transport electricity. <br> -Conductors allow electricity to flow through freely. Insulators do not allow electricity to flow through freely. |



