



2. Is the circuit pictured parallel or series, explain.

This is a **series parallel** circuit because there is **only one more than one** path for the electricity to flow.

3. Will the voltage in this circuit be greater at A or B? Why?

The voltage will be greatest at A B. In a **series parallel** circuit **as the electricity passes through the blubs some is used before it can get to the next bulb** **each bulb receives the same voltage because they are not in a series and the electricity has more than one path to flow.**

4. What causes current to flow from one terminal of the battery to the other? The **electron voltage proton ampere** difference is the push.

5. What is the advantage of a parallel circuit? Why are they used in homes?

In a parallel circuit, **there is only one path more than one path for the electricity to flow; this allows does not allow** some of the parts of the circuit to be turned off without affecting the others. In a home it is **important not important** to be able to turn off some parts of a circuit without affecting the other things using electricity on that circuit.

6. What is lightning?

The flow of electricity through a circuit from the clouds to the ground
The buildup of static electricity and then static discharge from the clouds to the ground.

7. How do we control lightning, what devices do we use to direct it to the ground? By using a lightning rod which is a(n) **insulator conductor** that directs the electricity into the ground.