**IF I COULD INVENT SOMETHING NEW**

If I could invent something new, what would it be? A machine that can convert lightning to electricity! Electricity is used in our everyday life through electrical appliances, gadgets, mobile phones and telecommunications.

What is lightning? Lightning is a flash, of very bright light in the sky caused by electricity. It can also be defined as a giant spark of electricity in the atmosphere between clouds, the air or the ground. Electricity can be defined as a form of energy from charged elementary particles, usually supplied as electric current through cables, wires, etc. Electricity serves various functions: lighting, heating, cooling, refrigeration and for operating other appliances. Each lightning bolt can reach up to 54,000 Fahrenheit, thus, five times hotter than the sun. Lightning bolt can be rounded up to contain more than a billion volts of electricity. To put to this in perspective, a single bolt of lightning has enough electricity to power a small town for an entire day.

Lightning moves about 30,000 times faster than a bullet. Thunder is the result of the rapid heating and expansion of air caused by a lightning flash. How is a lightning bolt formed? Because opposites appeal, the negative charge at the base of the storm cloud wants to associate with the earth’s positive charge. Lightning locates the rapid path to earth. The average lightning attack contains 15 million volts of electricity. Lightning can travel at a speed of about 360,000 kilometers per hour, distinguishing it as one of the quickest natural phenomenon. Lightning doesn’t go along a consecutive path. It frequently displays branching design. When lightning strikes sandy soil or definite minerals, it can produce fulgurites (tube-like structures).

I strongly believe that electricity from lightning can power up a building. This machine has many advantages: it is a renewable source of energy, easily manageable, efficient, convenient, has lower maintenance, and requires less labor force. It can also help in nitrogen fixation. By designing lightning rods, this can convert the energy into electricity.

It stipulates benefits like, helping our earth maintain its electrical balance as it helps transfer negative charges back to the earth. Without this exchange, the electrical balance between earth and the atmosphere would disappear in minutes, a clean and efficient source of energy that doesn’t produce harmful emission. Greater access to electricity improves education, entertainment, health, comfort, protection and productivity. Electricity also makes the world safer. Stoves could be powered by electricity instead of fire, reducing the risk of fire spreading. It also helps strengthen communities. Through electricity, pumping and filtering of water makes it a clean drinking water for availability.

In conclusion, this machine requires less labour.  Electricity is the backbone of modern society. Our life will go back to the primitive age without electricity. There is a need for rational use of electricity, as it is largely produced from non-renewable sources like coal and water.

**EVIDENCE SAMUEL**

**CLASS 7**

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