

Name: _____ Date: _____

Some Natural Phenomena

Q1. What happens when you touch the paper clip of a self-made Electroscope? Why does it happen? What is this process called?

Ans. _____

Q2. How can we determine if an object is charged or not?

Ans. _____

Q3. What is lightning conductor? How does it work?

Ans. _____

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Q1. What happens when you touch the paper clip of a self-made Electroscope? Why does it happen? What is this process called?

Ans. Every time the foil strips collapse as soon as we touch the paperclip with hand. The reason is that the foil strips lose charge to the earth through our body. The process of transferring of charge from a charged object to the earth is called earthing.

Q2. How can we determine if an object is charged or not?

Ans. An electroscope may be used to detect whether a body is charged or not. When the object is touched with the metal cap of an electroscope, both the metal cap and the leaves acquire the same charge from the charged object through the paper clip. It will cause the leaves to diverge showing that the object was charged.

Q3. What is lightning conductor? How does it work?

Ans. Lightning Conductor is a device used to protect buildings from the effect of lightning. A metallic rod, taller than the building, is installed in the walls of the building during its construction. One end of the rod is kept out in the air and the other is buried deep in the ground. The rod provides easy route for the transfer of electric charge to the ground.