Compare the features of two Non-Contact Forces

Magnetism and Electrostatics

|  |  |  |
| --- | --- | --- |
|  | Magnetic Force | Electrostatic Force |
| Describe the force and how you have observed it working. |  |  |
| State the “Pole Law” and the “Charge Law”. |  |  |
| Name the types of materials attracted by the force field. |  |  |

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**Creativity in Scientific Thinking**

One aim of making notes is to help you process the information and then communicate your understandings to others by writing and drawing diagrams.

Arrange your observations into a table that looks similar to a rectangular Venn Diagram.

|  |  |  |
| --- | --- | --- |
| Magnetic Force  (Give an example ) | Common features of the two forces | Electrostatic Force  (Give an example ) |
|  | Both forces act over a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The greater the distance from the source of the force the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the strength of the force. |  |
|  | Both forces \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the objects they act on. |  |
|  | Both forces act through poles and obey the pole and charge laws. |  |
|  |  |  |

**Creative Scientific Communicating**

You can now use this structure to write three paragraphs that describe the similarities and differences between magnetic and electrostatic forces.

The points in the middle column become the first paragraph. The other two columns become two paragraphs explaining the differences between the two forces.

You may draw diagrams to help you communicate your understandings.