



Unit 2 Electric and Magnetic Forces

Grade 3 Science

Unit Description:

Students will ask questions to determine cause/effect relationships of electric/magnetic interactions between two objects not in contact with each other. They will define simple problems that can be solved by applying scientific ideas about magnets. Students will use this knowledge to make claims about the merit of the design solution that can reduce the impact of weather-related hazards.

Science Standards:

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| 3-PS2-3 | Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other. |
| 3-PS2-4 | Define a simple design problem that can be solved by applying scientific ideas about magnets. |
| 3-ESS3-1 | Make a claim about the merit of a design solution that reduces the impact of a weather-related hazard. |

Enduring Understandings- Unit Anchor Phenomenon:

The Empire State Building is struck by lightning approximately 23 times a year, yet it doesn't experience any damage.

Essential Questions- Reflective Summaries:

- Explain cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.
- Define a simple design problem that can be solved by applying scientific ideas about magnets.
- Make a claim supported by evidence about the merit of a design solution (e.g. lightning rod) that reduces the impact of a weather-related hazard (e.g. thunderstorms).