



Parent Resources



We are always looking for resources to enhance our Unit of Inquiry. If you have something to share, or know someone who can offer information, please let us know!

Take Action

The Action Cycle (Choose, Act, Reflect) is an important part of our IB education. Please note any actions that you have noticed at home as a result of this unit and return this page to me at any time. Questions and comments are welcomed as well.



Benjamin E. Mays IB World School How the World Works 4th Grade

Principal
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Transdisciplinary Theme

How the World Works

How the World Works is an inquiry into the impact of scientific and technological advances on society and on the environment.

In this IB unit, we will explore electricity and magnetism. We will answer such questions as: What is magnetism? What is electricity? How are magnetism and electricity related? How do we use magnetism and electricity in everyday life?

We have several ways of looking at electricity and magnetism. We will use Bill Nye videos, BrainPop, YouTube videos, science books from the leveled library, iPads, and everyday items (alligator clips, voltage reader, lemons, copper wire, light bulbs, screws). Baskets of magnets will be available throughout the day for students to predict then observe their findings about things that are magnetic around the room.

To study this unit in depth, students will participate in and reflect on an interactive presentation conducted by the Bakken Museum regarding ACDC and the relationship between Tesla and Edison.

Students will demonstrate an understanding of the relationship of electricity and magnetism in everyday use by: 1) creating and presenting a circuit to a selected audience. They will also explain the possible applications of their circuit for everyday use; or 2) identifying ways that the practical application of electromagnetic force has changed how we live. The students will complete a shared research project using the scientific method. A student and teacher created checklist will be used to assess these projects.

We look forward to learning together!

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Central Idea

Natural forces interact in our daily life.

Lines of Inquiry

- Magnetism and its natural effects
- Electricity and its natural effects
- Natural and manmade systems that use electricity and magnetism

Transdisciplinary Skills

Thinking: Students will ask questions, recall what they know, apply their understanding throughout the unit.

Research: Students will use research methods to gather information for building a circuit.

Key Concepts

Connection, Causation, and Function

Learner Profile

Inquirer, Knowledgeable, and Thinker

Attitudes

Curiosity, Confidence, and Cooperation

