



## 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!

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## 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.

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## Benjamin E. Mays IB

## How the World Works 1<sup>st</sup> Grade

Principal  
Kirk Morris



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## Transdisciplinary Theme

# How the World Works

*How the World Works* is an inquiry into the natural world and its laws.

During this IB unit, we will ask many questions about forces and motion such as: What causes an object to move? What causes an object to stop? What is the difference between stability and balance? What causes a change in motion?

To help students learn, students will engage in a variety of experiments with force and motion. They will create a paper windmill and apply force with air to make it move. Students will fold a wax paper boat. Then they will place the wax paper boat in a tray of water and make it move without using their hands. Students will blow a balloon and hold it untied. Then they will explain what happens to the balloon when they release it in the classroom. Students will build a car out of Legos®. Then students will figure out how to make their cars move the furthest.

Students will also learn about Sir Isaac Newton's Laws of Motion and explain each of the three laws.

One of the ways we will know what your child has learned (our assessment) is through their planning and creating of a variety of machines that demonstrate motion and force. Please come to our IB Showcase in December to see what the students build.

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## Central Idea

Forces cause motion.

## Lines of Inquiry

- Forces that make objects stop
- Different ways objects move
- Ways movement of an object can be changed
- Balance, stability, and motion

## Transdisciplinary Skills

Thinking-Students will make predictions of what will happen with their simple machine

Communication-Students will create a list of materials needed for their simple machine project and let families know to help bring materials to school.

## Key Concepts

Change, Causation, and Function

## Learner Profile

Inquirers and Reflective

## Attitudes

Creativity and Independence

