

Motion and Materials

Grade 1

Teacher's Guide



Lake Erie Nature & Science Center

Description

In this hands-on inquiry field students will work together to solve a set of motion challenges using exciting and educational materials.

Length: 60 minutes. **Adult chaperones recommended:** 4-6

Content Standards

Subject	Gr	Standard	Objective/"I can" Statements
Physical Science	1	Objects can be moved in a variety of ways, such as straight, zigzag, circular and back and forth.	I can observe and explain ways that objects move in different directions.

Vocabulary

motion
position

pull
push

Books

- Forces Make Things Move by Kimberly Brubaker Bradley. Harper Collins, 2005.
- Motion by Ellen Lawrence. Bearport Publishing, 2013.

Pre-Trip Activities

Observe various ways that objects move in a straight line (vertical, horizontal).

Post-Trip Activities at School

- Have children choose a movement (zigzag, circular, straight) and race from one side of the class/gym.
- Make observations about motion in the natural world and explain why they are moving in that way (zigzag, circular, straight).

Extension Activities

- Build a Rube Goldberg machine to accomplish a simple task
- Implement a scientific investigation to determine: How can a ball be made to speed up (slow down or change direction)? With the class, list all the ways that were found.