

Force & Matter • Utah Standards 31-3.2 Hands-on Professional Development For 3rd Grade Teachers

The Offering

Grade	3
Topic	Force & Matter
Standards	3.1-3.2

A 2.5 hour hands-on physical science workshop that will share 18 labs and activities selected specifically to present Utah Standards 3.1 and 3.2 to your students. So much more than just rock and roll, it's a non-stop exploration of motion, forces and the properties of matter. Details on back.

Workshop Specifics

Host: Sara Mcaffee
Provo School District
Fee: \$ 115./teacher
Date: December 10, 2019
Time: 4:30 PM to 7:00 PM
Location: Grandview Learning Center
1591 North Jordan Avenue
Provo, Utah
Instructor: Bryce Hixson



Questions?
Call 801-568-9596

To Register for the Workshop
Click [HERE](#)

3rd Grade Science • Forces & Matter

Workshop Objectives

This is a hand-on workshop that introduces ideas and activities to teach the standards for 3rd grade physical science. By the end of the workshop teachers will be able to:

Objective 1

a. Describe, classify, and communicate observations about the motion of objects, e.g., straight, zigzag, circular, curved, back and forth, and fast or slow.

b. Compare and contrast the movement of objects using drawings, graphs, and numbers.

c. Explain how a push or pull can affect how an object moves.

Objective 2

a. Sort, classify, and chart objects by observable properties, e.g., size, shape, color, and texture.

b. Predict measurable properties such as weight, temperature, and whether objects sink or float; test and record data.

c. Predict, identify, and describe changes in matter when heated, cooled, or mixed with water.

Time Requirement

2.5 Hours

Resources Provided

a. Lab Guide

Each teacher will receive a 96-page lab guide that outlines the 18 activities presented during the training. Each lab has teacher background and prep pages, reproducible student directions, and assessment sheets.

b. Hand-on Materials

Each teacher will receive and keep their own participant's kit.

Standards & Curriculum Outline

Objective 1 • Forces

a.b. Describe & Compare Motion of Objects

Lab: Ping Pong Poppers (*straight*)

Demo: Tornado Tubes (*curved*)

Lab: Helicopter Races (*circular, fast & slow*)

Lab: Slinky Lasers (*back & forth*)

c. Push & Pull

Puzzle: Cartesian Diver

Lab: Balloon Races

Demo: Newton's Beads

Objective 2 • Matter

a. Observable Properties of Matter

Demo: Density Bubbles (*density, flammability*)

Lab: Slime (*texture*)

Lab: Mini Lava Lamps (*color & solubility*)

Lab: Avalanche in a Cup (*size, absorbancy*)

b. Measurable Properties of Matter

Demo: Sewer Maggots (*density*)

Lab Stations: Sink or Float (*density*)

Demo: Kidmometer (*temperature*)

Lab: Hot Hands, Cold Pack (*temp*)

Demo: Sorting Sand (*magnetism*)

Lab: What is Magnetic? (*magnetism*)

c. Changes in Matter with Heat & Water

Puzzle: Hand Boiler (*warming*)

Lab: Great Ice Cube Rescue (*cooling*)

Fees & Options

1. Just the Workshop Please \$ 115./teacher

Each teacher will receive a lab guide and a set of hands-on materials to use and keep.

Lab Guide

Hands-on PD Kit:

2.5 Hours of Instruction

2. Classroom Kit & Workshop \$ 185.

Kit includes enough materials for 10 lab groups/30 students. Ideal for a single classroom. Includes instruction, lab book & kit.

3. School Kit & Workshop \$ 265.

Ideal for a school science closet or as a resource kit available to be checked out from the district for an instructional unit. **Can be used four (4) times before the consumables need to be refilled.** Perfect for school science specialists or lead science teachers. Includes instruction, lab book & kit.