



# ENERGY QUEST: HEAT

## 3rd Grade

### DESCRIPTION

Raise the temperature of your third graders' understanding of heat in this new program, which introduces heat as a form of energy. Students will conduct hands-on experiments into the properties of heat, learn about various types of thermometers and interact with "cool" sources of heat. The students will be introduced to the differences between heat and temperature, as well as the concepts of conduction and absorption. They will experience a firsthand opportunity to explore heat and temperature exhibits in the Collins Family My Big Backyard gallery. Program will run for 1.5 hours.

#### **30 MINUTES – INTRO IN THEATER - ALL STUDENTS**

- Introduce characteristics of heat
- Demonstrate the differences between heat energy and temperature

#### **30 MINUTES - LAB**

- Students will explore ways to measure temperature using various types of thermometers
- Students will investigate friction, absorption, heat transfer and conductivity
- Students will also test the effects of heat energy on everyday objects

#### **30 MINUTES - GALLERY TIME** *(if open)*

- The Collins Family My Big Backyard will be introduced with focus on effects of color absorption with black and white panels
- Review temperature and temperature maps
- Paint with the heat from your hands.
- Free time in the gallery

#### **TAKE HOME ITEMS**

- Heat-sensitive pencils

REVISED 08.25.20