



# ENERGY QUEST: HEAT

## 3rd Grade

### DESCRIPTION

Raise the temperature of your students' 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. Program will run for 2 hours.

#### 30 MINUTES – INTRODUCTION IN THEATER

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

#### 30 MINUTES - LAB

- Explore ways to measure temperature using various types of thermometers
- Investigate friction, absorption, heat transfer and conductivity
- Test the effects of heat energy on everyday objects

#### 30 MINUTES - STORE & TREE ACTIVITY

- Discuss different types of heat sources

#### 30 MINUTES - GALLERY TIME

- Visit and explore the Collins Family My Big Backyard with a focus on the weather wall
- Compare the effects of color absorption with black and white panels
- Review temperature and temperature maps

#### TAKE HOME ITEM

- Heat-sensitive pencils

REVISED 07.23.21