

# Fernbank Science Center

Title: HOT STUFF (4342)
Level: 3rd Grade
Type: Outreach
Length: 60 minutes

Location: Local School Limit: 400

### **Program Description**

This action-filled program will be for all the 3rd grade students in your building. Heat affects most everything we do, how we dress, the types of houses we live in, even how we prepare our food. This program is designed to introduce the students to basic characteristics of heat as a kind of energy. Major topics include identifying the three ways heat is produced, how heat moves from one place to another, and how it affects the properties of the materials through which it travels.

### **Georgia Performance Standards Addressed**

S3P1 Students will investigate how heat is produced and the effects of heating and cooling, and will understand a change in temperature indicates a change in heat.

S3P1(a) Categorize ways to produce heat energy such as burning, rubbing (friction) and mixing one thing with another.

S3P1(b) Investigate how insulation affects heating and cooling.

S3P1(c) Investigate the transfer of heat energy from the sun to various materials.

S3P1(d) Use thermometers to measure the changes in temperatures of water samples (hot, warm, cold) over time.

#### Vocabulary

Heat	Insulation	Energy	cool
temperature	change	friction	mix
transfer	warm	cold	materials
41 4		1 4	

thermometer degree conductor

## **Post Visit Activity**

https://www.exploratorium.edu/science explorer/watertrick.html