

# Sweet Heat

*In this class, students will be introduced to the concepts of heat and heat transfer. They will be treated to interactive demonstrations and entertaining and educational activities. Make cotton candy to enjoy or take home!*

## **SUMMARY:**

The class will learn and observe the basic properties of heat by play-acting the role of atoms, as well as observing the effects and behavior of warm air and water. The children will witness a tea bag rocket-launch, a gravity defying candle lighting, and even take part in a sense-confusing temperature test. The course is capped off with a taste bud pleasing demonstration of heat at work, transforming solid sugar crystal into the spun floss of cotton candy!

## **EDUCATIONAL VALUE:**

This class introduces children to the idea of heat and important related scientific concepts. Students will learn the physical explanation for the existence and sensation of heat, as well as its many characteristic properties.

## **TAKE-HOME MESSAGE:**

- 1 Atoms and molecules make up all matter.
- 2 Hot molecules rise in gas and liquids.
- 3 Hot molecules move around faster than cold ones.

## **TAKE-HOME PRODUCT:**

Cotton Candy

## **NORTH CAROLINA ESSENTIAL STANDARDS:**

- 2.P.2.1 Give examples of matter that change from a solid to a liquid and from a liquid to a solid by heating and cooling
- 3.P.2 Understand the structure and properties of matter before and after they undergo a change.
- 3.P.3.2 Recognize that energy can be transferred from a warmer object to a cooler one by contact or at a distance and the cooler object gets warmer.
- 4.P.3.1 Recognize the basic forms of energy (light, sound, heat, electrical, and magnetic) as the ability to cause motion or create change.
- 5.P.3 Explain how the properties of some materials change as a result of heating and cooling.

