

Test Kitchen: Thinking like a Scientist



Educator's Guide

Discovery Area for Grades 1 – 3

Group size: 15 – 30 students
Adult chaperones required based on group size.
1 hour

What can you learn from food chemistry?

What happens to a recipe when we change an ingredient? What is going on chemically when we cook? Preparing a tasty snack is the springboard for thinking about food science and helps meet the interests, knowledge, understanding, abilities and experiences of students by thinking scientifically about a familiar treat.

In the Test Kitchen you can:

- Compare and contrast recipes.
- Test what ingredients are doing in food.
- Observe what happens when changes are made in familiar foods.
- Participate in a real lab experience.

Educator's Workshop box

Pre/Post-Visit Activities:

- Talk about the term "laboratory." What activities might be done in a laboratory? Is a kitchen a laboratory?
- What is a physical change? What is a chemical change? Name an example of each.
- Describe the usual things you might find in a cookie recipe. What is each ingredient contributing to the recipe? What would happen if one ingredient was missing?
- What do you need to do to keep safe in a kitchen? List some things that might be dangerous in a kitchen and how you protect yourself when you are cooking.

National Science and Math Standards

Science Inquiry:

Abilities necessary to do and understanding about inquiry

Physical Science:

Properties and changes of properties in matter

History and Nature of Science:

Nature of science and scientific knowledge

Create and use mathematical representations to:

Organize, record and communicate ideas

Define problems

Model and interpret physical, social and mathematical phenomena

Reading concepts and skills Includes: inquiring, describing, classifying, identifying, vocabulary development, and activity parallels

Students will also meet many required curriculum standards during their Science City visit. Visit the Curriculum Guides at

www.unionstation.org/edinfo.html



For questions about field trips or
Science City Discovery Area programs
Call 816-460-2020