

East Tennessee Discovery Center Outreach Program Guide 2nd Grade

Scheduling Your Outreach!

Call 865-594-1494 to schedule your outreach.

Please provide the following information:

1. Name of school and school phone number.
2. Teacher contact name and e-mail address.
3. Grade level, number of classes and number of students per class.
4. Time programs may begin, lunch schedule.
5. Name of program & month requested.

Starlab Outreach Programs

Starlab is a portable, inflatable planetarium that brings the nighttime sky to your school. The sky is projected on the inside of an inflatable dome where students investigate the stars and constellations. **The portable planetarium requires 22x22 feet of floor space and an 11-foot ceiling.** The ideal class size for Starlab is 20, but it can hold a maximum of 30 K-2nd graders.

Meeting Your Curriculum!

Every Discovery Center program is aligned with and reinforces the grade level expectations set by the Tennessee Department of Education. Included is a list of programs and the state science curriculum grade level expectations they meet.

Health programs meet the standards set by the Knox County Board of Education Health and Wellness curriculum.

The Dirt on Rocks

Dirt's just dirt, or is it? We can answer that question for you and others as we "dig" below the surface and learn the "all" about rocks.

- 7.7.1 Compare and record the components of a variety of soil types.
- 7.7.2 Describe rocks according to their origin, size, shape, texture, and color.
- 7.7.3 Differentiate between renewable and non-renewable resources.
- 7.9.1 Use tools to observe the physical properties of objects.

Dinosaurs: The Unfinished Puzzle

Students get "down & dirty" in a simulated dig site, make their own track way, mold fossil imprints and more as they piece together the fascinating puzzle of dinosaurs. This program will have even the most savvy dinosaur experts "roaring" with approval!

- 7.5.2 Draw conclusions from fossils about organisms that lived in the past.

Solids, Liquids & Gases

What are atoms? What do they look like? Learn about the periodic table and the three states of matter. Watch experiments that cause matter to change form.

- 7.9.1 Investigate how temperature changes affect the state of matter.
- 7.9.2 Recognize that air takes up space.

Ocean Voyage

Come on an exciting ocean voyage to discover treasures of the deep. Search the oceans with us and see the abundant life found underwater. From plankton to whales, view various fish and mammals through the submarine porthole! Visit a coral reef to learn about the food chain and what marine life lives in the different depths of the ocean.

- 7.1.1 Recognize that plants and animals are made up of smaller parts and use food, water, and air to survive.
- 7.2.1 Investigate living things found in different places.
- 7.2.2 Identify basic ways that plants and animals depend on each other.
- 7.3.1 Recognize that animals eat plants or other animals for food.
- 7.5.1 Investigate the relationship between an animal's characteristics and the features of the environment where it lives.
- 7.10.1 Explain why the sun is the primary source of the earth's energy.

Dental Health

What's the purpose of teeth? What's a tooth made of? Can the food we eat "help" or "hurt" the health of our teeth? What is a cavity? Is flossing really important? Hands-on activities help to answer these questions and more!

The student will understand:

1. The role of personal health (hygiene) practices as it relates to their total wellness.
2. The role of body systems as related to healthful living.
4. The relationship of nutrition to healthful living.
7. The need and process of setting personal goals and standards for healthful living.
10. Attitudes and behaviors for preventing and controlling disease.

You Are What You Eat

By exploring the Food Pyramid, children will learn what constitutes healthy food choices versus the unhealthy amount of sugar and fat contained in today's "popular" food items. Students see first hand, through the use of realistic 1 & 5 pound fat molds, the importance of daily exercise to maintain your optimum body weight and mobility.

The student will understand:

2. The role of body systems as related to healthful living.
3. The relationship of physical activity as it relates to healthful living.
4. The relationship of nutrition to healthful living.
7. The need and process of setting personal goals and standards for healthful living.
10. Attitudes and behaviors for preventing and controlling disease.

Starlab Zoo in the Sky

This program introduces the concept of stars and constellations as familiar pictures in the sky. Students will view some of the constellations visible in our nighttime sky during the current season, and learn how to locate those constellations themselves.

- 7.6.1 Realize that the sun is our nearest star and that its position in the sky appears to change.