

East Tennessee Discovery Center Outreach Program Guide 1st 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.

Make it Move

Kids love sports and this action-packed, sports-themed program will get them interested in science as well! With the instructor as the referee, students will use a variety of sports equipment to learn about gravity, friction, force and Newton's Three Laws of Motion.

7.11.1 Investigate how forces (push, pull) can move an object or change its direction.

Hide a Butterfly

Look in your backyard and discover the fascinating animals that live there. This program examines insect body parts, the stages of metamorphosis and insect coloration. Students will make their own butterfly to learn more about camouflage, color and shape.

7.1.1 Recognize that living things have parts that work together.

7.2.1 Distinguish between living and non-living things in an environment.

7.3.1 Recognize that plants and animals are living things that grow and change over time.

7.4.1 Observe and illustrate the life cycle of animals.

7.4.2 Describe ways in which animals closely resemble their parents.

Opposites Attract

How do magnets attract and why do they repel? Is your refrigerator a magnet? Learn about magnetic fields and the properties of magnets as you experiment with different magnet sizes and shapes.

7.12.1 Investigate materials that are attracted to magnets.

Day & Night

Take a trip through our solar system and beyond. Learn about planets, moons, asteroids and meteorites. Compare daytime and nighttime skies. Students will draw their own constellation pattern.

7.6.1 Compare and describe features of the day and night sky.

7.6.2 Realize that the sun can only be seen during the day, while the moon can be seen at night and sometimes during the day.

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.