

# **East Tennessee Discovery Center Fieldtrip Program Guide 5<sup>th</sup> Grade**

## **Scheduling Your Fieldtrip!**

Call 865-594-1494 to schedule your fieldtrip. Please provide the following information:

1. Date & time you would like to visit.
2. Name, address, & phone number of your school.
3. The number of students participating.
4. Programs you would like to see.  
A fieldtrip consists of a classroom program, planetarium show, and time in the exhibit gallery (this may include a scavenger hunt) or any combination of the above.
5. Whether your group will be shopping in our gift shop (prices range from 25 cents to \$10).

## **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 standards are aligned with the Knox County Board of Education Health and Wellness curriculum.

\* Indicates that the particular program best aligns with the GLEs for that grade level.

# **Planetarium Programs**

## **\*The Universe**

Students investigate solar systems, characteristics of comets, galaxies and the universe as a whole in a slide presentation led by our Planetarium Facilitator.

7.6.1 Compare planets based on their known characteristics.

## **\*The Sky Tonight**

Join our Planetarium Facilitator in viewing a simulated nighttime sky projected on the planetarium dome. Find the stars and constellations that are currently visible in the nighttime sky and hear the stories of how some constellations got their names. This interactive program can be tailored to meet the needs of your students.

7.6.2 Recognize that charts can be used to locate and identify star patterns.

## **Weather Machine**

Learn about common weather elements on Earth and how they affect our weather patterns. Topics include wind, clouds, tornadoes and hurricanes. Hear how these elements of Earth's weather compares to the weather on other planets. Narrated in part by WATE-TV6's chief meteorologist Matt Hinkin.

7.6.1 Compare planets based on their known characteristics.

# **Classroom Programs**

## **\*Bats Abound**

Truth versus myth about bats from around the world! See native Tennessee bat skins. View a real bat skeleton and compare the similarities to the human skeleton. Participate in age-appropriate activities that will have your students "flying".

7.2.1 Investigate different nutritional relationships among organisms in an ecosystem.

7.2.2 Explain how organisms interact through symbiotic, commensal, and parasitic relationships.

7.2.3 Establish the connections between human activities and natural disasters and their impact on the environment

7.5.1 Investigate physical characteristics associated with different groups of animals.

## **\*Forces & Motion**

Discover the role “friction” and “gravity” plays in our daily lives. Through participatory and fun activities such as racing cars, hitting homers, and riding a skateboard, students will grasp the concepts of Newton’s Three Laws of Motion.

7.10.1 Design an experiment to illustrate the difference between potential and kinetic energy.

7.11.1 Design an investigation, collect data and draw conclusions about the relationship among mass, force, and distance traveled.

7.12.1 Recognize that the earth attracts objects without directly touching them.

## **\*Our Planet & Moon**

Through imitation, students learn the movement of the Earth and Moon and how the Earth’s movements create day and night and four seasonal changes.

Participatory and fun activities help students understand the “phases” of the Moon as well as the Moon’s physical features.

7.12.1 Recognize that the earth attracts objects without directly touching them.

7.12.3 Provide examples of how forces can act at a distance.

## **Light & Stars**

Investigate the properties of light, the color spectrum, and explore what happens when colors of light are mixed. Students will determine, through experimentation with different materials, which materials are “translucent”, thus allowing light to pass through them. Various mediums will be used to demonstrate light “refraction”. The use of “diffraction-lens glasses” will allow students to examine “glowing gases”, the same way astronomers do when studying the stars.

7.6.2 Recognize that charts can be used to locate and identify star patterns.

## **\*From Cells to Systems**

Did you know there are “trillions” of cells in the human body and each cell has a specific function and purpose? Come explore the human body, while viewing real “preserved” human organs. Learn the chain of events from cells to organs to body systems and the how’s behind the process.

7.1.1 Distinguish between the basic structures and functions of plant and animal cells.

Health Standard 2 The student will understand the role of body systems as related to healthful living.