



eTrek is a unique and engaging program which allows students to discover science, technology, mathematics, and health concepts within an amusement park setting. Some of the rides include: the mini coaster, Himalayan, Whirley Bird, swings, Gyroscopic, Rock N' Roll cages, and the twister. Other attractions are: bowling, miniature golf, climbing wall, and the soft play area.

Hands-on high-tech equipment, such as the following, will be provided for each student to experience: accelerometer, pulse meter, spirometer, scientific probes, laptops, graphing calculators, and more.

Students will learn to apply this technology to determine: graphical, algebraic and trigonometric solutions, motion and forces, speed, velocity, kinematics, dynamics, motion, G-forces, heart rate, and lung capacity.

**Here are just some of the activities that students will experience on their eTrek:**

**Bowling for Science**

Determine the coefficient of friction between a rolling ball and the waxed alley

**What's Your Lung Capacity?**

Discover which eTrek ride gives the lungs the greatest work-out

**Hitting the Target**

Define and demonstrate the functions of the heart at rest and after activity

**Out of Balance**

This lesson explores the function of the inner ear, the importance of perception and balance.

**Spheres on a Roll**

Discover how mass affects different spheres

**Rolling Along**

Predict the speed of the rolling bowling ball

**Speed Trap**

Measuring and experiencing forces of attractions

**What Causes Acceleration?**

Create your own accelerometer to experience acceleration

**You've Got Rhythm**

Determine heart rate at rest and during activity



**To Schedule a Field Trip:**

Contact Brenna Board  
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