

# Math. Science. Skating?

**Skateland in Indianapolis** is now offering Educational Field Trips for Elementary and Middle School students, taught by certified teachers.

The Field Trips use **roller skating** to demonstrate **science & math** concepts. Lesson Plans have been developed to satisfy the Standards of the State Board of Education.



Each field trip can accommodate 40 to 100 students and is 2 – 2 ½ hours in length

1 hour hands-on classroom learning and 1 – 1 ½ hours of skating for physical education

**Skateland**  
roller skating

*Don't take our word for it. See what other teachers like yourself are saying about our Educational Field Trips.*

"A great mix of Education, Fitness & Fun!" **Ann Weaver YMCA Afterschool Program**

**Skateland 3902 N. Glenarm Rd Indianapolis, IN 46254 Tel: 317-291-6795**  
**www.SkatelandIndy.com || www.facebook.com/Skateland**



## Elementary School Field Trips

### **Math Field Trip (suggested for grades K-1)** **Measurement, Tallies and Time**

Students will use non-standard units to measure various objects. Through additional hands-on activities, they will collect and organize data into tally charts and answer questions about the data they have recorded. Students will also order events based on time as related to roller skating.

### **Science Field Trip (suggested for grades K-1)** **Motion and Data**

Students will investigate a variety of ways in which a roller skate can move and what causes it to change speed, direction, and/or to stop. Children will design questions that can investigate relating to the motion of a roller skate. Through additional hands-on activities, students will collect data and make pictographs. They will use these pictographs to describe observations and draw conclusions related to the data gathered.

### **Math Field Trip (suggested for grades 2-3)** **Tilt and Time**

Students will conduct an experiment using an inclined plane and roller skates to gather and organize data concerning the effects of gravity. Using the data collected, they will construct a line or bar graph. Students will use their graphs to predict outcomes and draw conclusions relating to the effects of gravity.

### **Science Field Trip (suggested for grades 2-3)** **Machines, Motions and Force**

Students will identify the six simple machines and describe how machines make work easier. Through additional hands-on activities, children will investigate the amount of force needed to move various objects. They will compare the amount of force required to move these objects with and without the help of wheels by recording their findings on charts.

### **Math Field Trip (suggested for grades 4-5)** **Mean, Median, Mode and Measurement**

Students will collect data from a skating activity and compute the mean, median and mode of the set of numbers collected. Through additional hands-on activities, they will determine the circumference, center-point, radius and diameter of a circle. Students will solve multi-step problems using measurement skills.

### **Science Field Trip (suggested for grades 4-5)** **Friction**

Students explore the forces that directly affect objects and their motions. Using hands-on activities, they develop an understanding of friction and how it affects daily life. With the aid of roller skates, students investigate the ways in which friction can be increased or decreased, as well as what affects the force or amount of friction.



3902 N. Glenarm Rd Indianapolis, IN 46254 317-291-6795  
www.skatelandindy.com

## Middle School Field Trips

### **Math Field Trip (suggested for grades 6-8)** **Speed and Distance**

Students will predict the circumference of circles using a ratio box. They will also use a multi-step problem in which they must convert units of measurement to determine revolutions per minute. Through this exercise the students will understand how to select appropriate units for measuring derived measurements.

### **Science Field Trip (suggested for grades 6-8)** **Kinetic and Potential Energy**

Students explore and demonstrate Newton's Three Laws of Motion. Through a hands-on approach, they will investigate that energy can take many forms. As students work through the activities they will observe the differences between kinetic and potential energy.

## Benefits of Roller Skating Field Trips

- **Get out of the classroom and get hands on with our unique interactive instruction**
- **Increase cardiovascular strength and coordination**
- **Burn between 650-1000 calories in a 90 minute skating session**
- **Lesson plans designed to compliment your current curriculum**
- **Develop muscle strength**
- **Meets the National and State standards**
- **Discounted lunch packages**

**Schedule Your Class Today!**  
**Call 317-291-6795**

