

ATTENTION:
Educators

2016-2017 SCHOOL YEAR

STEM

ELEMENTARY SCHOOL EDUCATIONAL

FIELD TRIPS

at Sparkles of Kennesaw

CALL
770.595.3003
to Reserve
YOUR School
TODAY!



▶ A UNIQUE EDUCATION EXPERIENCE

When participating in one of our S.T.E.M. Tastic adventures (field trips) students will learn that Science, Technology, Engineering and Math can be found in everyday experiences, even in **FUN EXPERIENCES** like **ROLLER SKATING**.

▶ PLUS PHYSICAL FITNESS!

1 Hour of S.T.E.M. Education, 2 Hours of Physical Fitness through Roller Skating!

S.T.E.M. FACTS

The United States Ranks 27th in developed nations in the proportion of College Students receiving Undergraduate Degrees in Science or Engineering!

1 in 5 S.T.E.M. College Students decided to study S.T.E.M. in Middle School or Earlier!

Students will learn S.T.E.M. concepts in an Interactive and entertaining way, enhancing learning at United Skates!

1000 McCollum Parkway, Kennesaw GA • 770.428.3941
www.SparklesKennesaw.com • www.facebook.com/SparklesKennesaw



STEM

DEVELOPED BY
Professional
Educators
NATIONWIDE!

ELEMENTARY SCHOOL EDUCATIONAL

FIELD TRIPS

CALL
770.595.3003
to Reserve
YOUR School
TODAY!

ALL
S.T.E.M.
LESSONS
Meet State
Standards!

ELEMENTARY SCHOOL S.T.E.M. LESSONS!

LESSON 1: THE SCIENCE OF ROLLER SKATING

Students will learn the parts of a roller skate and learn to identify shapes. They will also practice basic arithmetic or math calculations using measurements and counts of the cafe tables, skate rack or other areas of the roller rink and will then compare their findings with the actual measures or counts.

TOPICS LIKE: Area and Perimeter • Geometry • Friction

LESSON 2: MOTION & RINK DESIGN

Students will learn about basic geometric shapes and will be taught about the materials used in a roller rink. Students will also learn physics of motion using roller skates to roll and stop safely.

TOPICS LIKE: Force/Friction • Diameter/ Circumference

LESSON 3: MUSIC, MATH & ROLLER SKATING

Students will learn how to count using the beats of the music played in a roller rink and will learn how the type of music affects the speed of the skater. Fourth and Fifth Graders will also learn how to control the speed of skaters using the beat of the music.

TOPICS LIKE: Waves • Calculation of Beats per minute and Frequency & Speed

LESSON 4: SUPER SOUND! ACOUSTICS & RINK DESIGN

Students will learn why there are so many speakers used in a roller rink and how they work. They will explore how sound travels through different mediums in the roller rink. Students will find ways a DJ uses sound to affect skaters.

TOPICS LIKE: Sound System Design • Frequency Path of Sound

LESSON 5: ENGINEERING MAGIC & LIGHTING

Students will learn about the different types of light used in a roller rink. Students will explore how the color of light affects change in the roller rink. They will also study how engineers decide which lights to use in a roller rink.

TOPICS LIKE: Types of Light • Lighting Design

LESSON 6: HEART, HEALTH AND FITNESS

Students will learn about basic human biology and how the body works from the inside out. Students will focus on heart related anatomy, nutrition, and exercise. Students will have fun exploring through heart healthy activities, such as Finding and calculating their average heart rate. Students will also learn about the importance of making heart healthy food choices by identifying and understanding nutritional labels and facts.

TOPICS LIKE: Basic Anatomy • Heart Health Calculating an Average • Labeling a Graph

LESSON 7: FORMULAS, FRACTIONS, AND FUN; THE RELATIONSHIP BETWEEN MATH & ROLLER SKATING

Students will learn how math concepts can be found all over the skating rink. Students will measure and calculate the speed of a skater, use mean, median, and mode to talk about skate sizes, and study all of the shapes that can be found in a skating rink.

TOPICS LIKE: Mean, Median and Mode • Geometry Calculating Speed

