

STEM

EDUCATIONAL FIELD TRIPS!



ALL OF OUR
S.T.E.M.
LESSONS
FOLLOW
STATE-LEVEL
CURRICULUM
STANDARDS

WE OFFER **5 UNIQUE ACTIVITY-BASED STEM LESSONS**
THAT MATCH WHAT YOU ARE TEACHING IN THE CLASSROOM!

MIDDLE SCHOOL STEM LESSONS

LESSON 1: THE SCIENCE OF ROLLER SKATING *

Students will learn about the parts of a roller skate/inline skate and how each part functions to make the skate. They will discuss how surfaces in the rink are made of different materials and how that affects the skate in motion. Students will have a chance to showcase their creativity and design a new feature for a skate.

Topics Like: Geometry, Friction, Reverse Engineering, Design

LESSON 2: 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. Students will also learn how to control the speed of skaters using the beat of the music.

Topics Like: Sound Waves, Beats per Minute, Frequency

LESSON 3: HEART, HEALTH & FITNESS

Students will learn about the functions of the cardiovascular system and about leading a healthy lifestyle. They will make predictions and then calculate their average heart rate through physical activity.

Topics Like: Cardiovascular System, Heart Health, Importance of Exercise

LESSON 4: 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, compare, and average the speed of several skaters, discover how engineers use geometry in the rink, and how statistics relates to roller skating.

Topics Like: Averages, Geometry, Statistics

LESSON 5: NEWTON'S LAWS OF MOTION *

** Great for wider range of student grade levels*

Students will learn that each one of Newton's Three Laws of Motion are present in the skating rink. They will experiment with force and mass and discuss the importance of physics and roller skating.

Topics Like: Physics, Laws of Motion, Inertia

NEED TRANSPORTATION?

Skate City Has
Busing
Transportation
AVAILABLE!



(District approved, CDE certified, affordable
busing fee applies)