

STEM

FIELD TRIPS

ENGAGE YOUR ELEMENTARY STUDENTS

with 6 EXCITING, HANDS-ON
S.T.E.M. Lessons, designed to
align with YOUR curriculum!

S.T.E.M. IN EVERYDAY FUN!

Students learn S.T.E.M.
concepts through the
science of roller skating!

CROSS-CURRICULAR CONNECTIONS

Combining a S.T.E.M. instruction
with physical fitness FUN!

2 MILLION+ STUDENTS
HAVE PARTICIPATED
NATIONWIDE
ACROSS 125+ LOCATIONS



RESERVE YOUR
SCHOOL TODAY!

STEM

EDUCATIONAL FIELD TRIPS!



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

ELEMENTARY SCHOOL STEM LESSONS

The Science of Roller Skating

Lesson 1

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

Sound & Acoustics Design

Lesson 4

Students will explore how sound waves look and how they travel through different mediums. They will discuss sounds that relate to the roller skating rink including the differentiation in speaker pitch and tones.

Topics Like: Sound Waves, Doppler Effect, Sound System Design

**For more information or
to book your field trip:**

Email the STEM Coordinator at

STEMCoordinator@moonlightrollerway.com

Motion and Rink Design

Lesson 2

Students will get an introduction into the physics of roller skating by discussing the four parameters of motion. Students will answer an open-ended question by inventing their own skate design.

Topics Like: Motion, Physics, Design

Science of Lighting

Lesson 5

Students will learn about the speed of light and how light travels. Students will learn the exciting effects of light with the use of reflection and refraction.

Topics Like: Electromagnetic Spectrum, The Speed of Light, Light Waves



Music, Math, & Skating

Lesson 3

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: Sound Waves, Beats per Minute, Frequency

Heart Health

Lesson 6

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 and 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

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Field Trip Cost

\$1500.00 for 50 students and up to 5 chaperones
\$30 for each additional student or chaperone
18% auto gratuity added to final total

Field Trip Includes

45 minute STEM instruction
45 minutes of skating - skates included
Group Photo

Field Trip Add-Ons

Snack Bar Options

CLOSED TAB - Guests will pay for their own purchases

OUTSIDE FOOD - Additional cost of \$3.00 per person in attendance

DEDICATED LUNCH - Requires an additional 30 minute add on at \$450.00 and must be requested at least 1-week in advance. Dedicated Lunch option includes a meal coupon for a slice of pizza, bag of chips, and fountain drink or punch for up to 50 students. Additional meal coupons are available for \$9.00 each.

Other Add-Ons

SKATE MATES - SkateMates are a walker with wheels. They are an additional \$8.00 per SkateMate. Not available for 8th grade or higher.

Lesson Options - Kinder to 5th Grade

Lesson 1

The Science of Roller Skating

Topics Like: Geometry, Friction, Reverse Engineering, Design

Lesson 2

Motion and Rink Design

Topics Like: Motion, Physics, Design

Lesson 3

Music, Math, & Skating

Topics Like: Sound Waves, Beats per Minute, Frequency

Lesson 4

Sound & Acoustics Design

Topics Like: Sound Waves, Doppler Effect, Sound System Design

Lesson 5

Science of Lighting

Topics Like: Electromagnetic Spectrum, The Speed of Light, Light Waves

Lesson 6

Heart Health

Topics Like: Basic Anatomy, Heart Health, Calculating an Average, Labeling a Graph

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Skating Rink since 1956