Starlite Family Fun Center

STEM

SCIENCE • TECHNOLOGY • ENGINEERING • MATHEMATICS

3 Locations to Serve You

MCDONOUGH

425 PLAZA PKWY
MCDONOUGH, GA 30253

SHARPSBURG

55 THOMAS GRACE ANNEX
SHARPSBURG, GA 30277

STOCKBRIDGE

3710 N. HENRY BLD
STOCKBRIDGE, GA 30281

COMMUNITY PARTNER WITH SCHOOLS NATIONWIDE

S.T.E.M. FIELD TRIP Program

SCIENCE, TECHNOLOGY, ENGINEERING & MATH!

OUR THREE HOUR S.T.E.M. FIELD TRIP PROGRAM COMBINES S.T.E.M. EDUCATION, PHYSICAL EDUCATION AND LUNCH IN AN EXCITING FORMAT!

- **S.T.E.M. Education:** The first hour the students participate in one of our S.T.E.M. lessons which demonstrate the relationship between S.T.E.M. and roller skating.
  Students will learn S.T.E.M. concepts in an interactive and entertaining way, enhancing learning. The S.T.E.M. portion of this program is instructed by a trained, experienced educator who is very knowledgeable on S.T.E.M.'s relationship to roller skating. Some of the topics covered in the S.T.E.M. lessons are motion, force, friction, sound waves, Doppler Effect, light waves, design and geometry.
- **Lunch:** The students will be served lunch from our cafe after the S.T.E.M. lesson.
- **Roller Skating for Physical Education:** Students will skate for approximately two hours. This is an entertaining, and fun way to experience the S.T.E.M. concepts that they just learned. This skating event allows two hours of exercise and a student can burn up to 1,000 calories in just one field trip. For the beginner skaters, we provide them with skatemates. These are trainers that help them balance and skate, so they have a positive experience during their field trip.
- All lesson plans are copyrighted and meet Georgia Standards of Excellence

Starlite Family Fun Center

Our Mission for STEM

Schools | **PTA** | **PTSA** | **PTO**

Since 1993, Starlite Family Fun Centers have been providing family friendly entertainment for communities throughout Georgia. With three locations, and franchise opportunities available, Starlite understands the importance of community outreach and partnerships. Our fundraising programs have helped 100s of schools throughout Henry, Fulton, Butts, Coweta, Fayette, Heard, Spalding, Rockdale and Clayton Counties reach their financial campaign goals and provide needed amenities/improvements to benefit teachers, students, and educational programs.

In 2015, Starlite Family Fun Centers introduced STEM Field Trips as an additional way to give back to the school community. Our STEM Field Trips provide a unique educational experience while exploring the Science, Technology, Engineering, and Mathematics behind one of our favorite pastimes, ROLLER SKATING!

Through STEM Field Trips, we are able to offer an affordable and engaging option students of all grade levels love.

Educational STEM Field Trips Meeting Georgia Standards of Excellence

- STEM Education: The first hour the students participate in one of our seven STEM lessons which demonstrate the relationship between STEM and roller skating. Students will learn STEM concepts in an interactive and entertaining way, enhancing learning. The STEM portion of this program is instructed by a trained, experienced educator who is very knowledgeable on STEM's relationship to roller skating. Some of the topics covered in the STEM lessons are motion, force, friction, sound waves, Doppler Effect, light waves, design and geometry.
- Lunch: Lunch options available or students can bring a bagged lunch.

- STEM Education: The first hour the students participate in one of our seven STEM lessons which demonstrate the relationship between STEM and roller skating. Students will learn STEM concepts in an interactive and entertaining way, enhancing learning. The STEM portion of this program is instructed by a trained, experienced educator who is very knowledgeable on STEM's relationship to roller skating. Some of the topics covered in the STEM lessons are motion, force, friction, sound waves, Doppler Effect, light waves, design and geometry.
- Lunch: Lunch options available or students can bring a bagged lunch.

- Roller Skating for Physical Education: Students will skate for approximately an hour and a half, they will also play games that go right along with the lesson they just learned. This is an entertaining, and fun way to experience the STEM concepts that they just learned. This skating event allows two hours of exercise and a student can burn up to 1,000 calories in just one field trip.
- For the beginner skaters, we provide them with "Skatemate". These are trainers that help them balance and skate, so they have a positive experience during their field trip. • All lesson plans are copyrighted and meet New Generation Science Standards and Common Core Math Standards.
- The STEM lesson begins at 10AM and lasts 1 hour after the lesson the students will eat lunch and then begin to skate or play. Still using the fundamentals of their STEM lesson the field trip ends at 1pm.

All S.T.E.M. Lessons Align with NGSS!

STEM 2023 2024

EDUCATIONAL FIELD TRIPS

Attention: Elementary Educators

Over 1,200,000 students participated in our STEM program nationwide, in more than 125 locations!

Starlite Family Fun Center

UNIQUE EDUCATION EXPERIENCE!

When participating in one of our STEM field trip adventures, students will learn **Science, Technology, Engineering and Math** can be found in everyday experiences, even in **FUN EXPERIENCES** like **ROLLER SKATING!**

PLUS PHYSICAL FITNESS!

One hour of STEM education and two hours of physical fitness through roller skating.

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www.starlitefamilycenters.com *facebook.com/starlitemcdonough*

Call 770-898-0100

STEM

All Lessons are Influenced by Next Generation Science Standards Adopted by Educators Nationwide!

Elementary School STEM Lessons

KINDERGARTEN

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

1ST GRADE

LIGHTS, SOUNDS, & SKATING!

Students will learn that both sound and light can travel in waves. They will discover the different types of lights we use in the skating rink, and learn what makes sound in a skating rink.

Topics Like: Frequency, Waves, Vibrations

2ND GRADE (OPTION #1)

FORCE & MOTION

Students will learn basic physics as they discuss the forces in play when they roller skate. They will see how gravity and friction impact a skater in motion, then they experiment by rolling a skate down a ramp.

Topics Like: Gravity, Friction, Motion

2ND GRADE (OPTION #2) NEW!

THE SCIENCE BEHIND ROLLER AND ICE HOCKEY

Students will learn how STEM plays a very large part in sports, specifically roller and ice hockey. They will learn how three different kinds of motion can make a difference in the outcome of the game. They will also learn how roller skates and inline skates used in roller and ice hockey work.

Topics like: Physics, Force, Potential Energy and Motion

3RD GRADE

ROCKS & ROLLER SKATING

Students will investigate roller rink materials and classify them based on hardness, color and texture. They will apply skills that are used for rocks & minerals to make observations about the different parts of a skate!

Topics like: Moh's Hardness Scale, Luster, Defining a Rock and Mineral, Texture

4TH GRADE

MUSIC & LIGHTING

Students will learn about how light and sound travel. They will learn the exciting effects of light with the use of reflection and refraction. They will discuss the different speakers used in a skating rink, and how they work together to make music.

Topics like: Refraction, Waves, Frequency

5TH GRADE (OPTION #1)

SOUND & SKATING

Students will discover how speakers work, and 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: Electricity, Doppler Effect, Sound System Design

5TH GRADE (OPTION #2) NEW!

ARCADE STEM

Students will learn about the science, math and engineering of arcade games at the rink. They will measure their reaction time, calculate the probability of simple games and create an electric circuit.

Topics like: Reaction Time, Probability, Engineering Through Game Design, and Electric Circuits

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All S.T.E.M. Lessons Align with NGSS!

S.T.E.M.

2023 / 2024

ATTENTION: MIDDLE SCHOOL EDUCATORS!

EDUCATIONAL FIELD TRIPS

A TRULY UNIQUE EDUCATION EXPERIENCE!

When participating in one of our **STEM Field Trip** adventures, students will learn **Science, Technology, Engineering & Math** can be found in everyday experiences, even in **FUN EXPERIENCES like ROLLER SKATING!**

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One hour of STEM education and two hours of physical fitness through roller skating.

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To Reserve Your School TODAY!

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STEM

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MIDDLE SCHOOL STEM LESSONS!

5TH GRADE (OPTION #1)

SOUND & SKATING

Students will discover how speakers work, and 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: Electricity, Doppler Effect, Sound

5TH GRADE (OPTION #2) NEW!

ARCADE STEM

Students will learn about the science, math and engineering of arcade games at the rink. They will measure their reaction time, calculate the probability of simple games and create an electric circuit.

Topics like: Reaction Time, Probability, Engineering Through Game Design, and Electric Circuits

6TH GRADE

SKATING IN THE SOLAR SYSTEM

Students will take a journey through our Solar System and discuss what it would be like to build a roller skating rink on different moons and planets. They will discuss engineering challenges with differences in gravity, atmosphere, and temperature.

Topics like: Earth Space, Science, Engineering, and Gravity

7TH GRADE

HEALTH, FITNESS, & SKATING

Students will learn about the functions of the human body 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

8TH GRADE (OPTION #1)

NEWTON ON ROLLER SKATES

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

Topics like: Physics, Laws of Motion, Inertia

8TH GRADE (OPTION #2) NEW!

THE SCIENCE BEHIND ROLLER AND ICE HOCKEY

Students will learn how STEM plays a very large part in sports, specifically roller and ice hockey. They will learn how three different kinds of motion can make a difference in the outcome of the game. They will also learn how roller skates and inline skates used in roller and ice hockey work.

Topics like: Physics, Force, Potential Energy and Motion

CALL 770-898-0100 to BOOK your school TODAY!

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All S.T.E.M. Lessons Align with GSE!

S.T.E.M.

2023 / 2024

ATTENTION: HIGH SCHOOL EDUCATORS!

EDUCATIONAL FIELD TRIPS

A TRULY UNIQUE EDUCATION EXPERIENCE!

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email: salesmanager@starliteffc.com

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3710 N. Henry Blvd, Stockbridge GA 30281

STEM

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HIGH SCHOOL STEM LESSONS!

LESSON #1: NEWTON ON ROLLER SKATES

MOTION & SKATING

Students will learn about Newton's Three Laws of Motion and how forces and motion interact with each Law. They will experiment with force, mass, and discuss the importance of physic in everyday life and roller skating.

Topics like: Physics, Laws of Motion, Inertia

LESSON #2: FORMULAS, FRACTION AND FUN

ENERGY & 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, how statistics relates to roller skating, and discuss conservation of energy.

Topics Like: Conservation of Energy, Kinetic and Potential Energy, Statistics

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WE PUT THE FUN IN FUNRAISING!

SPiRiT Night!

RAISE MONEY & HAVE FUN!

Thursday & Friday Nights!

UNLIMITED Family FUN!

1. Book your Spirit Nights
2. Have FUN & EARN MONEY

*Your School Earns 20% BACK on Door Sales

Starlite Family Fun Center

Book YOUR Fundraiser at ANY of Our Rinks!