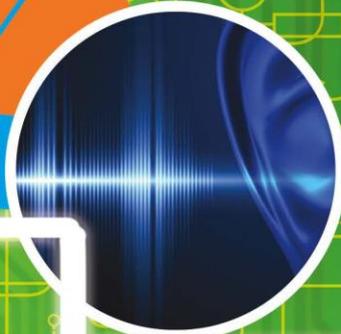


2018 2019

STEM

**SUPPORTS
GEORGIA
STANDARDS OF
EXCELLENCE**



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

2ND GRADE (OPTION #2) **COMING SOON** 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

5TH GRADE (OPTION #1) SOUND SKATING

Students will discover how speakers work, and will explore how sound waves look and 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

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

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

5TH GRADE (OPTION #2) **COMING SOON** 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

2ND GRADE (OPTION #1) FORCE & MOTION

Students will learn basic physics as they explore the forces in play when they roller skate. They will see how gravity and friction impact a skater in motion. Then they will experiment by rolling a skate down various ramps.

Topics Like: Gravity, Friction, Motion

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 also discuss the different speakers used in a skating rink, and how they work together to make music.

Topics like: Refraction, Waves, Frequency



CALL TO RESERVE YOUR SCHOOL TODAY!