



# Eighth Grade Georgia Programs

## MONTHLY PROGRAM PAIRINGS

OCTOBER & NOVEMBER	FEBRUARY & MARCH
*Cosmic Colors Center of the Atom Meet the Elements Rover Rescue	*Cosmic Colors Are You Dense? Force & Motion Hiker

## PLANETARIUM PROGRAMS

### **COSMIC COLORS** Months offered: OCTOBER, NOVEMBER, FEBRUARY & MARCH

Cosmic Colors will take you on a wondrous journey across the electromagnetic spectrum. Discover the many reasons for color – like why the sky is blue and why Mars is red. Take a tour within a plant leaf and journey inside the human eye. Investigate x-rays at your doctor’s office and at a monstrous black hole. Get ready for an amazing adventure under a rainbow of cosmic light! Standards: S8P4.a, S8P4.b, S8P4.c, S8P4.d, S8P4.e, S8P4.f, S8P4.g

## DISCOVERY PROGRAMS

### **ARE YOU DENSE?** Months offered: FEBRUARY & MARCH

Students explore density using Earth materials including minerals, water, sand, and iron filings. They will take measurements, collect data, plot coordinates, and interpret graphs as they analyze the mathematical relationship between mass and volume. Standards: MGSE8.F.4, MGSE8.F.5

### **CENTER OF THE ATOM** Months offered: OCTOBER & NOVEMBER

Students explore atomic structure using a series of hands-on activities which concludes with the discovery of the uses of an atom they create using the Interactive Nucleus display and the Living Periodic Table. Standards: S8P1.e

### **HIKER** Months offered: FEBRUARY & MARCH

This interactive computer program explores graphing concepts by tracking students’ movements. Students enjoy the challenge and fun of moving to create specific line graphs. Standards: S8P3.a

### **FORCE & MOTION** Months offered: FEBRUARY & MARCH

Students will conduct investigations to distinguish between force and work, and mass and weight. They will demonstrate how simple machines such as levers, pulleys, and inclined planes reduce the amount of force needed to do work. Standards: S8P3.a, S8P3.b, S8P3.c

### **MEET THE ELEMENTS** Month offered: OCTOBER & NOVEMBER

Students “meet the elements” in a fun music video; then work together to classify materials as elements, compounds and mixtures. They will build atomic models and discover why compounds are either ionic or covalent. Standards: S8P1.a, S8P1.b, S8P1.e



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### DISCOVERY PROGRAMS

**\*NEW ROVER RESCUE** Months offered: OCTOBER & NOVEMBER

A new planet has been discovered! Sadly, the rover sent was attacked by an alien creature. You are the best hope the crew has for keeping the mission going! As the coder tasked with the rover's survival, you must code the rover to explore the planet and collect mineral samples until the rest of the crew can return with the equipment needed to neutralize the hostile environment. Standards: CSS.DC.6-8.3, CSS.IDC.6-8.18, CSS.IDC.6-8.19, CSS.IDC.6-8.20