



# Fourth Grade Georgia Programs

## MONTHLY PROGRAM PAIRINGS

AUGUST, SEPTEMBER & OCTOBER	DECEMBER & JANUARY	MARCH & APRIL
*Two Small Pieces of Glass OR *Magic Treehouse: Space Mission Do You See, What I See? Sound-sational	*Two Small Pieces of Glass OR *Magic Treehouse: Space Mission Kinesthetic Astronomy Lunar Design Challenge Dodo Does Math	*Two Small Pieces of Glass OR *Magic Treehouse: Space Mission Owls: Wise Guise Simple Machines Walk Across the Solar System

## PLANETARIUM PROGRAMS

### MAGIC TREEHOUSE: SPACE MISSION Months offered: AUG., SEPT., OCT., DEC., JAN., MAR. & APRIL

Travel with brother-sister duo, Jack and Annie, in their Magic Tree House as they discover a note that asks them to answer six questions about space. With the help of an astronomer, the Internet, an astronaut, books and the writer of the mysterious note, we go on a wonderful journey of adventure and learning. This beautifully produced show is based on the beloved Magic Treehouse book series. Standards: S4E1.b, S4E1.c, S4E1.d

### TWO SMALL PIECES OF GLASS Months offered: AUG., SEPT., OCT., DEC., JAN., MAR. & APRIL

Join two young people at a star party as they observe planets and stars in a telescope. Learn how the telescope has changed from a modified spyglass using two small pieces of glass to the huge, space and land-based devices of today. Standards: S4E1.a

## DISCOVERY PROGRAMS

### DO YOU SEE WHAT I SEE? Months offered: AUGUST, SEPTEMBER & OCTOBER

Students will explore ways that light can be reflected, refracted, diffracted and absorbed by various objects. They will also investigate how the eye converts light into images. Standards: S4P1.a, S4P1.b, S4P1.c

### \*NEW DODO DOES MATH Months offered: DECEMBER & JANUARY

Students will learn how to write real code while completing various math challenges including measurement, addition, subtraction, and computational thinking to help a dodo find her missing eggs! Standards: MGSE4.NBT.4, MGSE4.MD2, CSS.CT.3-5.5

### KINESTHETIC ASTRONOMY Months offered: DECEMBER & JANUARY

Students get a feel for the scale of the universe as they sort celestial objects; then they model the Earth, Moon and Sun. They will discover why stars appear to move across the sky each day/night, why we see different stars during the year and how Earth’s tilt causes seasons. Standards: S4E1.a, S4E1.b, S4E1.c

### LUNAR DESIGN CHALLENGE Months offered: DECEMBER & JANUARY

Students will design, build, and test a Lunar Buggy to transport astronauts and cargo on the Moon. They will collect and analyze data, take measurements, and refine their models using the Engineering Design Process. Standards: Mathematics MGSE4.MD.1, MGSE4.MD.2



# Fourth Grade

## GA Programs Continued...

### DISCOVERY PROGRAMS

#### **OWLS: WISE GUISE** Months offered: MARCH & APRIL

Silent flight, a curved beak and sharp talons are some of the owl's guise that enables these birds to be successful predators. We will explore four owls native to our area, interact with live owls and dissect owl pellets. Standards: S4L1.a, S4L1.b

#### **SIMPLE MACHINES** Months offered: MARCH & APRIL

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: S4P3.a, S4P3.b, S4P3.c

#### **SOUND-SATIONAL** Months offered: AUGUST, SEPTEMBER & OCTOBER

Students will learn about sound waves and how loudness and pitch may be manipulated. They will use teamwork to construct their own musical instruments and play a song. Standards: S4P2.a

#### **WALK ACROSS THE SOLAR SYSTEM** Months offered: MARCH & APRIL

Students learn about the planets and the size of the solar system as they create a model of the solar system using a scale of 1 inch = 100,00 miles. This requires walking outside for about a mile, so **please wear appropriate shoes!** Standards: S4E1.d