



“ALIEN’S ALIVE”

AN IMMERSIVE
THEATRICAL ADVENTURE

Study Guide for Pre-K- 5th Grades

The Story Ship
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About the Program

While reporting live, The Story Ship's science reporter, Sarah, is kidnapped by aliens and trapped on a space ship bound for the outer regions of our solar system. Audience volunteers must quickly form a rescue team and use magic, dance and music to get her back. The audience helps to unravel a celestial musical message. Each alien communication gives us clues as to the alien's location and how to rescue Sarah. This show is highly interactive with audience participation every minute to two minutes with kids helping with magic tricks, singing, dancing, and navigating the rescue rocket through an interactive game.

Onstage, giant video animations and holographic images allow us to communicate and track Sarah's amazing journey through our solar system. In school shows, audience members explore the relationship between music, math and space travel. Sarah is returned to earth safely. The show ends in a celebration as the aliens, audience and actors all dance to the melody the aliens sent us.

This fast-paced high energy show combines:

Interactive 3D Holograms

Animation projected on a large screen

Music played on a theremin

Gaming

Comedy Musical Theater

Program Objectives

Through listening to the story, interacting with the animated characters, and participating in the navigation of the Story Ship's rocket, students learn facts about space and our solar system as outlined in the curriculum connections below. During the show, a number of students are asked to participate by helping to solve math problems, play musical instruments, dance an alien dance, assisting with magic tricks.

Pre-and post-performance discussions and activities are strongly suggested for students to get the most out of the performance experience.

Artist Bio

Sean Driscoll has thrilled audiences with performances of interactive animation, music, storytelling, theater, comedy and magic for thirty years. This unique combination makes their performances and workshops truly original. His company, The Story Ship, has artists performing regularly throughout the United States in theaters, schools, libraries, resorts, after school programs, and festival settings. They reach tens of thousands of children and adults each year through hundreds of residencies, workshops and performances. Mr. Driscoll has performed for groups up to 8,000 kids and performed over 5,000 shows.

Technical Requirements

See tech rider and stage plot.

Set Description

The set includes a giant backdrop of the interior control room in the Story Ship rocket. There is a large rear projection screen in the center of the back drop that allows the audience to see into space as the rocket travels to distant planets and allows the audience and our lead character Sam Starfield to interact with mission control on Earth and the aliens. There is a control panel center stage where the audience volunteers help fly the ship. Other props onstage such as a Theremin and magic tricks help with telling the story and provide a way to make music.

Curriculum Standards Connections

Florida Curriculum Connections

KINDERGARTEN

SC.K.E.5.1

Explore the Law of Gravity by investigating how objects are pulled toward the ground unless something holds them up.

SC.K.E.5.3

Recognize that the Sun can only be seen in the daytime.

SC.K.E.5.5

Observe that things can be big and things can be small as seen from Earth.

SC.K.E.5.6

Observe that some objects are far away and some are nearby as seen from Earth.

FIRST GRADE

SC.1.E.5.1

Observe and discuss that there are more stars in the sky than anyone can easily count and that they are not scattered evenly in...

SC.1.E.5.2

Explore the Law of Gravity by demonstrating that Earth's gravity pulls any object on or near Earth toward it even though nothing...

SC.1.E.5.3

Investigate how magnifiers make things appear bigger and help people see things they could not see without them.

SECOND GRADE

SC.2.N.1.1

Raise questions about the natural world, investigate them in teams through free exploration and systematic observations.

SC.2.P.8.1

Observe and measure objects in terms of their properties, including size, shape, color, temperature, weight, texture, sinking or floating in water, and attraction and repulsion of magnets.

THIRD GRADE

SC.3.E.5.1

Explain that stars can be different; some are smaller, some are larger, and some appear brighter than others; all except the Sun are so far away that they look like points of light.

SC.3.E.5.2

Identify the Sun as a star that emits energy; some of it in the form of light.

SC.3.E.5.3

Recognize that the Sun appears large and bright because it is the closest star to Earth.

SC.3.E.5.4

Explore the Law of Gravity by demonstrating that gravity is a force that can be overcome.

FOURTH GRADE

SC.4.P.10.3

Investigate and explain that sound is produced by vibrating objects and that pitch depends on how fast or slow the object vibrates.

SC.4.E.5.3

Recognize that Earth revolves around the Sun in a year and rotates on its axis in a 24-hour day.

SC.4.E.5.4

Relate that the rotation of Earth (day and night) and apparent movements of the Sun, Moon, and stars are connected.

FIFTH GRADE

SC.5.E.5.1

Recognize that a galaxy consists of gas, dust, and many stars, including any objects orbiting the stars. Identify our home galaxy as the Milky Way.

SC.5.E.5.2

Recognize the major common characteristics of all planets and compare/contrast the properties of inner and outer planets.

SC.5.E.5.3

Distinguish among the following objects of the Solar System -- Sun, planets, moons, asteroids, comets -- and identify Earth's position in it.

Pre-and Post-Performance Discussion Questions and Information

What are the parts of our solar system? Sun, Planets, Dwarf Planets, Asteroids, Meteorites, Comets

What are the names of the planets in our solar system? Mercury, Venus, Mars, Earth, Saturn, Jupiter, Uranus, Neptune

What is an eclipse? Passing of a shadow of the Sun, Moon or planet over another planet or object.

What is an electromagnetic wave and how are they used in our daily lives? How are they used in space exploration?

Electromagnetic waves are invisible energy waves that travel at the speed of light. These waves exist on spectrum and provide us with useful tools such as X-Rays to heal with, Radio Waves to communicate, Microwaves to cook with, GPS's to navigate and much more.

Which planets are considered to be gas giants? Jupiter, Saturn, Neptune, Uranus

Name a physical characteristic of each planet?

Mercury – Has a solid core of iron. Shortly after the birth of the solar system, Mercury cooled rapidly making its surface wrinkled like the skin of an old man. Mercury is the closest planet to sun but not the hottest.

Venus – Is the hottest planet with a thick atmosphere that traps heat. It also has the most volcanoes of any planet.

Earth – Is the only planet known to have life with an abundance of water, plants and animals. It lies perfectly balanced from the sun with a moon and atmosphere that produces moderate temperatures allowing life to flourish.

Mars – is the red planet. The red comes from the presence of iron in the soil. Mars is home to the largest volcano in our solar system, Olympus Mons.

Jupiter – One of the gas giants, Jupiter is the largest planet. It has a giant storm three-times larger than the earth with the winds up to 425 mph.

Saturn – Is the planet with rings. It is made mostly of gas and spins so fast that the top and bottom flatten and the middle bulges. The rings of Saturn are made of dust and are very thin on the side. Sometimes the rings will disappear when the observer looks at the rings side-on! Saturn can float in water since gas is lighter than water!

Uranus – Spins on its side in retrograde motion or the opposite of the way most planets spin. It is known as the ice giant. Methane ice crystals give it a pale blue color. It has smaller lighter color rings than Saturn.

Neptune – is the blue planet furthest from the sun. It has the fastest winds of any planet 700 – 2000 miles per hour

What object lies at the center of our solar system? The sun is at the center of our solar system and occupies 98% mass. It's strong gravitational pull keeps the planets, asteroids, comets and dwarf planets orbiting around it.

What is gravity? The force that attracts objects toward the center of the earth or one another.

General facts about the Solar System:

- The Sun's gravity holds our planets and other solar system objects in place during their orbit.
 - Each planet has their own orbit length and rotation. Their years depend how far they are from the sun and how fast they are traveling. Their days depend on how fast they spin.
- So, each planet's "year" and "day" is different.
- Jupiter is the biggest planet.
 - Pluto is no longer considered a planet. For many years it was.
 - The only planet in our system that has water and supports life is Earth. $\frac{3}{4}$ of the earth is cover in water.
 - . Mar's does have an ice polar cap.
 - About 500 years ago the astronomer Copernicus was the first to believe that every object in the universe revolved around the sun.
 - Galileo created the first telescope 400 year ago allowing us our first glimpse into space. He was then able to prove Copernicus was both correct and incorrect. The objects in the solar system do revolve around the sun, but the stars and galaxies of deep space do not.

Pre- or post- Performance Activity Suggestions

Art:

1. [Create hats for each of solar system parts](#) to be used in the cross-curriculum activities below.
2. Illustrate a story about space travel written by the students. (See Projects Below)

Language Arts:

1. **Create A Space Adventure Book**- Where should the Story Ship go next? What adventure should Captain Starfield and the Story Ship rocket go on? Write a space exploration story using our cast of characters. Use our online [story book creation study guide](#) to create your story. Have the kids illustrate the story and create a book.
2. **Solar System Parts Paragraphs** – Have students write a paragraph describing each solar system part.

Science:

1. Make a living solar system out of kids and use Mar's "The Planet's Go Marching" to have the students move demonstrate the spinning and orbiting motion of the planets.

- a. Print out large images of each part of the solar system and have the kids create hats for each planet, the sun, moons and asteroids and comets etc.
- b. Download the ["The Planet's Go Marching Song"](#) from the Story Ship's Website.
- c. Turn out the lights and use a camping lantern as the sun.
- d. Make sure you have plenty of space in the room for kids to move. A gym or multipurpose room is best. Mark each object's motion on the floor using color coded tape.
- e. Set each student into motion spinning and orbiting around their objects in a reasonable path.
- f. Stop the song and point out a lunar and solar eclipse as the student pass in front of each other blocking the lantern's light. Ask students if they notice any other planets experiencing the same events.
- g. Have each student present a little statement about the most unusual characteristics of their solar system object.

2. Go on a journey through the solar system via YouTube!

<https://kids.nationalgeographic.com/explore/youtube-playlist-pages/youtube-playlist-solar-system/>

3. Explore the science of sound and energy waves by conducting the following experiments with your students.

Observe sound energy being transferred by conducting the following experiments:

[Pan and Peas Vibrations Experiment](#)

[Sound Propagation Through Water Glasses](#)

[Seven Ways to See Sound](#)

4. Easy experiments to teach young kids gravity

[Paper clips and magnets](#)

[Penny Drop](#)

[Gravity Fun](#)

Music & Art:

1. Gustav Holtz – Planets Symphonic Adventure

- a. Play each one of the movements of Holtz’s symphonic work, “The Planets.”
- b. Discuss the major traits of the planets listed below.
- c. Play each movement and have the students raise their hands as the music is playing when they hear something in the music that symbolizes the traits of each planet.
- d. Ask kids to illustrate what they see in their mind’s eye as they listen to each planet.

- 2. High or Low, Loud or Soft** – Play a game to identify high and low pitches and loud and soft pitches. Use a xylophone or piano to play pitches while the kids are blindfolded and ask them to raise their hands for higher or lower or louder or softer notes. This is a great opportunity to teach notation of volume in musical scores.

Coloring Pages

<http://www.supercoloring.com/coloring-pages/space-astronomy/planets>

<https://www.bing.com/discover/planets-coloring-pages>