

CURRICULUM CONNECTIONS

Astronaut VS. Aquanaut



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Know Before you Go:

- Arrive at the theater 15 to 20 minutes before show time. Allow extra time for Broward County traffic. We are unable to start a show late.
- Please stay on the bus until greeted by a SEAS usher. At that time, please give the usher your BUS document and the usher will escort you to the theater.
- Remember to watch our Know Before You Go Video:

<https://tinyurl.com/ElementarySeasWelcome>





Dear Educators,

We are excited to present this Curriculum Connection (Study Guide) as a valuable resource to support your teaching journey. This guide has been carefully designed to offer engaging and meaningful activities for use in your classroom before and after seeing a S.E.A.S. performance at The Broward Center's Amaturo Theater, The Parker, or Miniaci at NSU. Each section is structured to make it easier for you to integrate cross-curricular connections, providing a seamless experience for students to deepen their understanding while exploring the creative process.

The activities and lessons in this guide have been intentionally crafted to complement Florida's B.E.S.T. standards. By utilizing these resources, you will be able to foster a dynamic and creative learning environment while ensuring students meet key academic goals. We encourage you to adapt the materials to best fit your classroom's needs and objectives, empowering students to think critically and creatively across all disciplines. This special guide includes content from Janet's Planet and Astronaut-Aquonaut: How Space Science and Sea Science Interact by Jennifer Swanson.

We want to take a moment to express our sincere appreciation for the passion and dedication you bring to your classrooms every day. Your commitment to infusing art-full moments into education not only enriches your students' learning experiences but also ignites their curiosity and creativity. Thank you for inspiring the next generation of thinkers, creators, and innovators. We are truly grateful for the impact you have on your students' lives. Consider joining the Teacher's Lounge (QR code below) to be notified of special events and discounts just for Teachers.

Don't forget to distribute your S.E.A.S. stickers when you return to school (after the trip) and share the magic that is Student Enrichment Through the Arts!



Teacher's Lounge



Theater Etiquette

There is so much that goes into creating a show for the stage. Behind the scenes, there are people who control the lights and the sound, the sets and the props. There are directors, writers, producers, musicians, and choreographers. So many people work together to create the performance you and everyone in the audience watches.

It is helpful to remind students of appropriate audience etiquette by explaining and discussing WHY these rules of behavior are important:

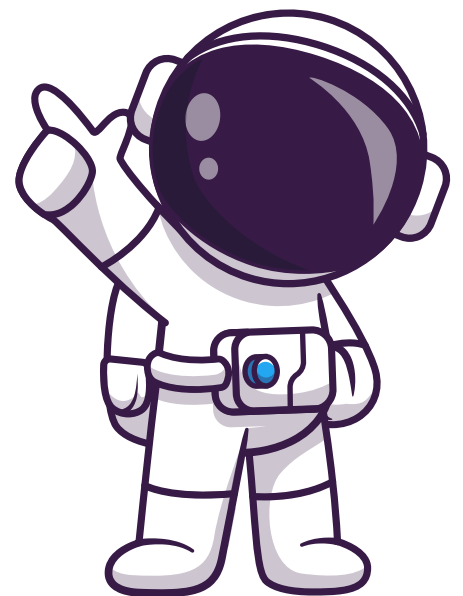
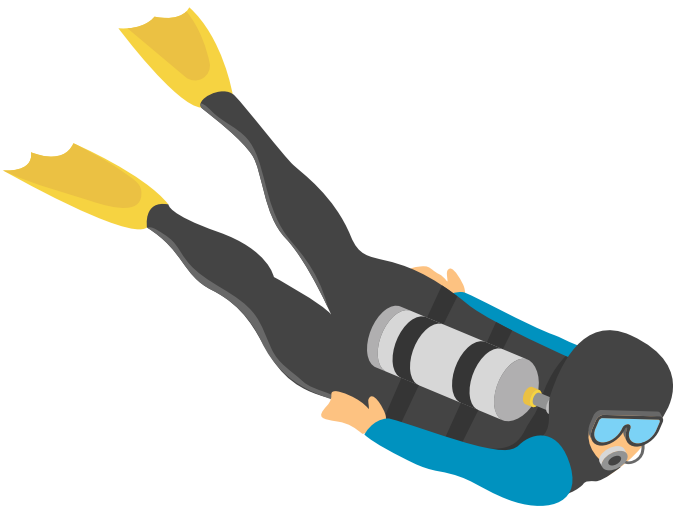
- Restroom visits are best made prior to the performance.
- Listen carefully to the ushers and your teachers. This gets everyone to your seats quickly and ensures a pleasant experience.
- Turn watches and cell phones to silent.
- Walk single file, hold hand rails as you use the steps for your safety.
- Listen carefully to each performer. They are working hard to entertain and inform with lots of clues about the story.
- Refrain from TALKING. This allows everyone to enjoy the show without distraction. Sometimes we think that if we whisper it is okay. But, if everyone in the audience whispers, it becomes disruptive.
- Laugh if something is funny, but not too loudly, you don't want to miss any dialogue.
- Photography and recording are not permitted.
- Pay attention to the lighting, scenery, costumes and music. All of these elements help provide more details to tell the story in an interesting way.
- Applaud (clap) and laugh at the right moments. This shows the performers that you respect and appreciate their work.

Synopsis

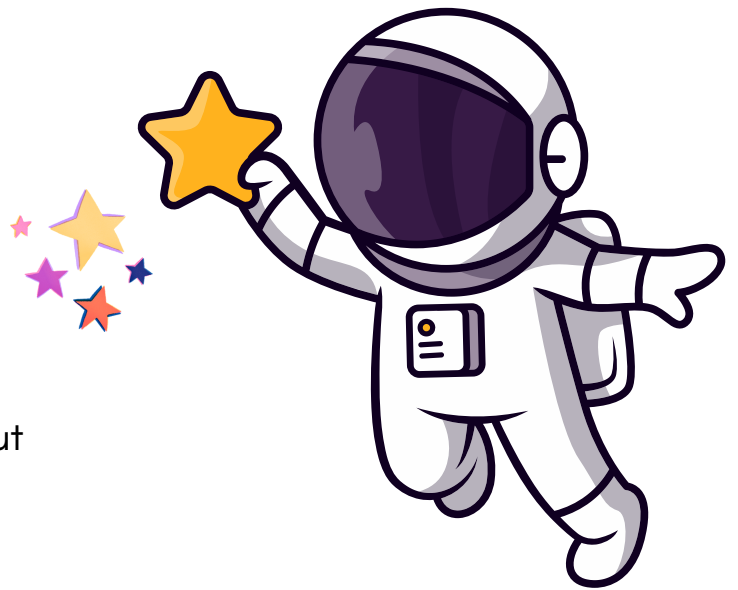
ASTRONAUT OR AQUANAUT?: In this corner, we have ASTRONAUT in the spacesuit! In this corner, we have AQUANAUT in the wetsuit! Who will be the ultimate explorer?!?

Join Janet of Janet's Planet and Jennifer Swanson, of Science Rocks and author of the children's book Astronaut-Aquanaut: How Space Science and Sea Science Interact, in an exciting and interactive debate to decide which extreme environment YOU would rather live and work in.

This exciting event will have you soaring into space and diving deep into the ocean, learning about the ways in which exploration of inner- and outer-space can be surprisingly similar!



ASTRONAUT TRAINING CHALLENGE



Create a list of 10 skills an astronaut needs (e.g., problem-solving).

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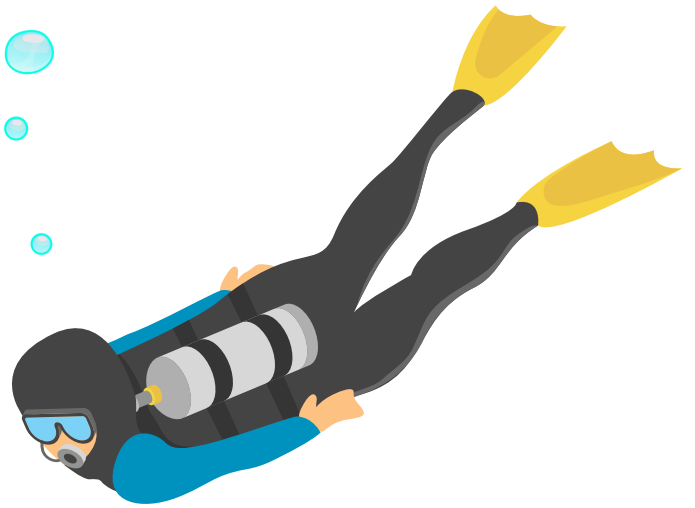
Write and draw how you would prepare for a space mission.

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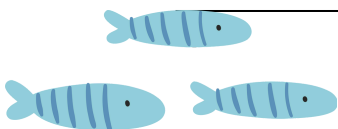


Aquanaut Training Challenge

Create a list of 10 skills an aquanaut needs (e.g., problem-solving).



Write and draw how you would prepare for a undersea mission.



Astronaut/Aquanaut Vocabulary



Astronaut
a space explorer



Aquanaut
an underwater explorer



Gravity
a force that
pulls objects
downward



Gravity
a force that
pulls wight or
dnnnword



Buoyancy
the ability to
float in water



Cravity
very weak
gravity, such
as in orbit



Explorer
a person who
investigates
unknown things



Pressure
a force caused
by weight
or force



Ballast
weight that
keeps a
submarine
stable



**Neutral
Buoyancy
Lab**
a large pool
used to train
astronauts



SPACE

WORD SCRAMBLE



Unscramble the following space words

ATORSNTUA _____

PTENLAS _____

SCPEA
STLTHUE _____

STRAS _____

MNOOS _____

SNU _____

SEPCA STUI _____

CMOTSE _____

RKCTEO _____

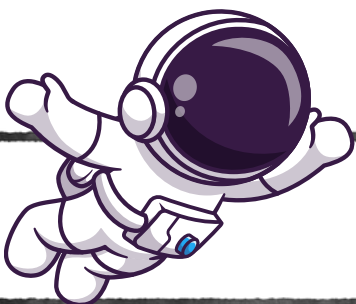
FLATO _____

GTIRAYV _____

OBITR _____

WRITE ABOUT IT: WOULD YOU RATHER?











Would you rather float in space or float in the ocean?
Why?



Layers of the Ocean

Can you name the layers of the ocean?

Fill out the worksheet to label the layers correctly and list some of the creatures you might find there.

	200m	
	1000m	
	4000m	
	6000m	
	11000m	

SINK OR FLOAT PREDICTIONS

**Make a prediction in the table below if you think the item will float or sink.
Test your predictions.**

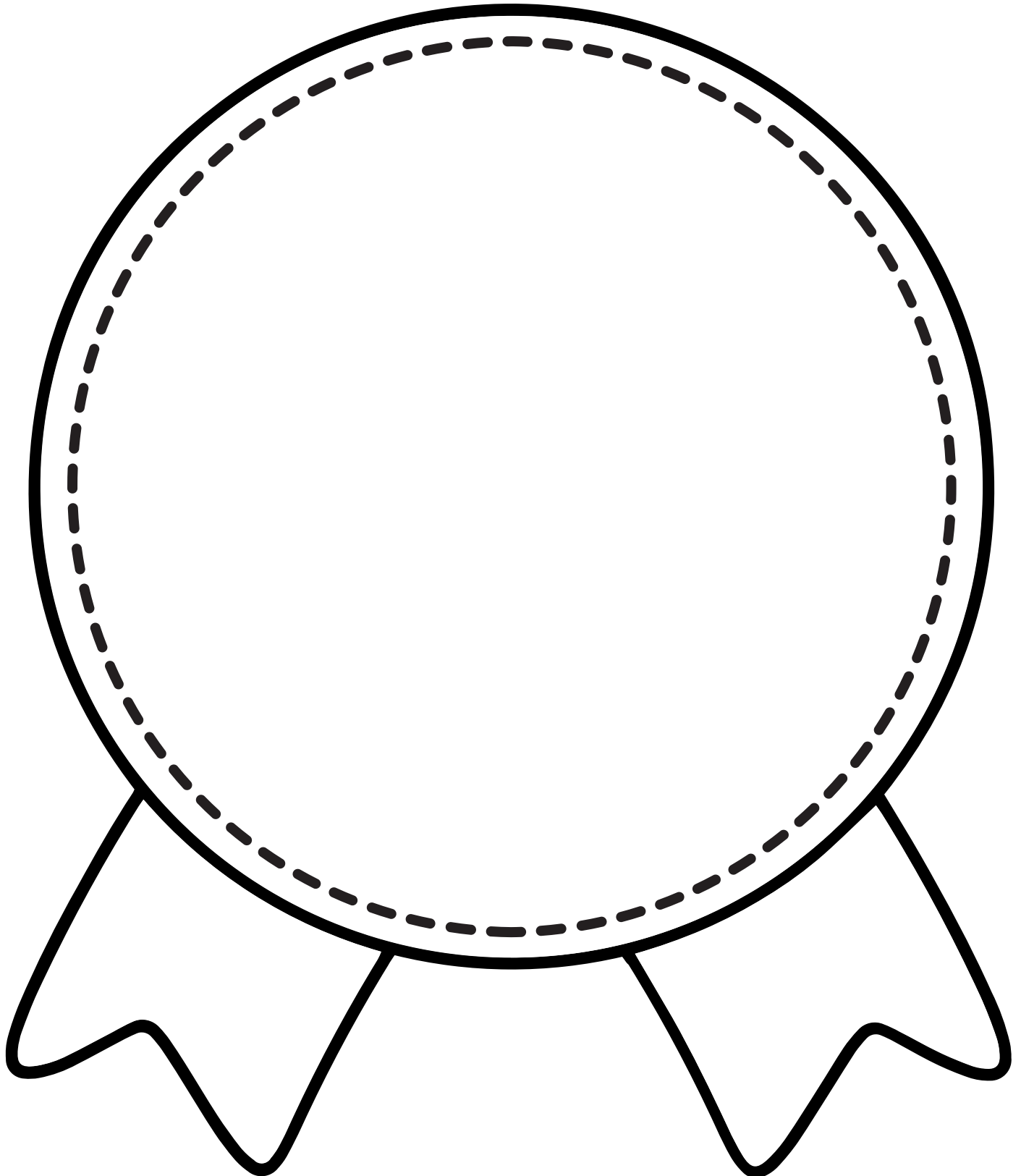
Object	Float	Sink
pencil		
paper clip		
notecard		
marshmallow		
toy car		
coin		
stick		
crayon		

How does buoyancy work? _____

What role does gravity play? _____

DESIGN CHALLENGE

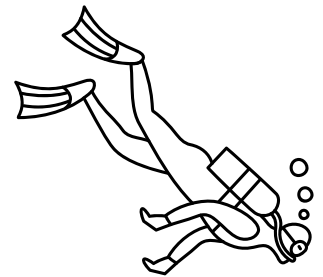
Design a mission patch that includes symbols of both sea and space.



POST SHOW EXTENDED LEARNING:

Key Vocabulary:

- Gravity
- Microgravity
- Buoyancy
- Pressure
- Density
- Ballast
- Explorer
- Aquanaut
- Astronaut
- Neutral Buoyancy Lab



Post-Show Discussion Questions:

- What challenges do astronauts and aquanauts face that are similar?
- How do gravity and buoyancy affect movement differently?
- Why is teamwork important for space and sea exploration?

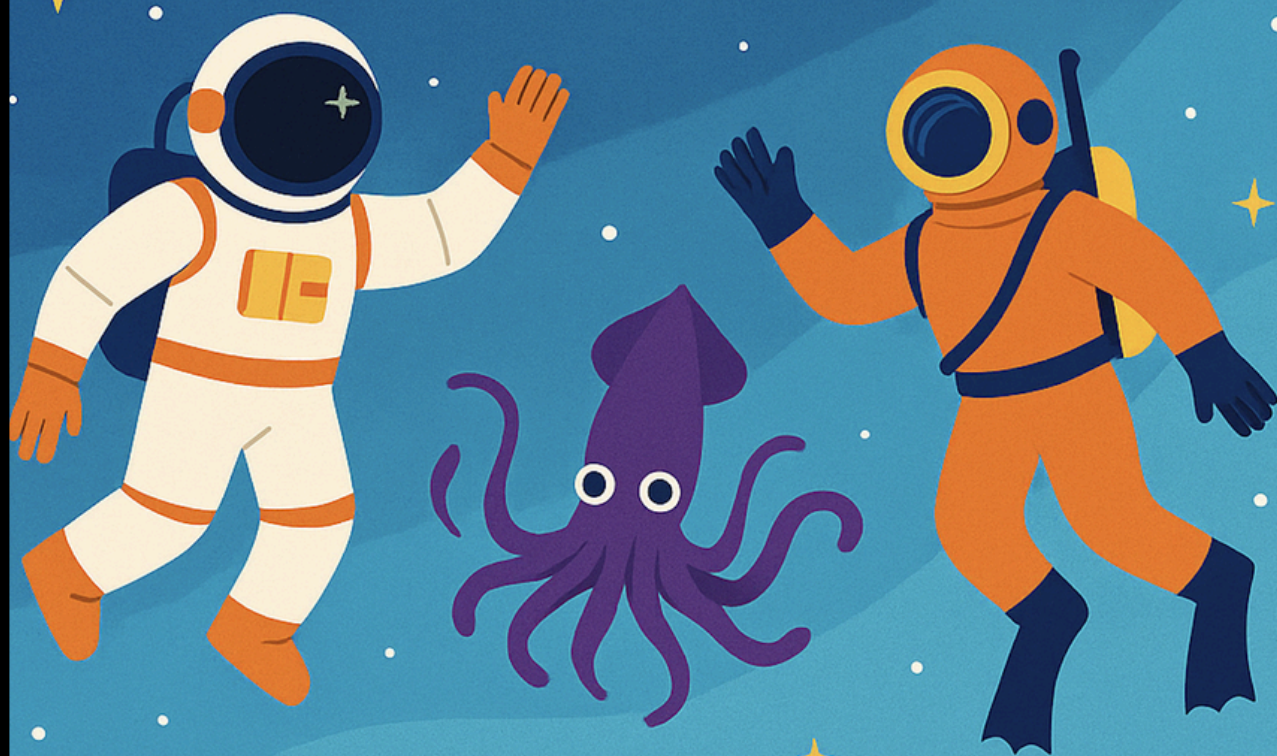
Theater Vocabulary: From Script to Spotlight

- Play:** A story told live on stage by actors in front of a live audience.
- Musical:** A story told live on stage by actors in front of a live audience that also involves singing and dancing.
- Genre:** The style of a play.
- Plot:** The timeline of actions in the story from beginning to end.
- Setting:** Where a story takes place.
- Characters:** Who the story is about.
- Conflict:** A problem that the characters in the story have to face and overcome. A conflict arises when a character wants something but something else gets in their way.
- Objective:** What a character wants to achieve or solve in the story. In other words, a character's goal.
- Protagonist:** The story's **hero**. This is the character who is out to accomplish a goal or find purpose.
- Antagonist:** The story's **villain**. This character is usually against what the protagonist(s) needs to accomplish their objective or goal.
- Dialogue:** a conversation between two or more people in a play or musical.
- Moment Before:** an acting term that encourages actors to consider what is going on in their character's life just before the present moment.
- Blocking:** Movement the director give to the actors to show them where to go on the stage
- Choreography:** A sequence of dance moves assigned to a dancer in a musical number (song) that are used to help tell the story.
- Cue:** In theater, a cue signals when another action should begin. Ex: The actor's cue to enter the stage might be after they hear the thunder sound effect.
- Make-Up:** Artistically designed cosmetics to enhance an actor's portrayal of a character.
- Playwright:** The writer or writers of the play. Playwrights write the dialogue between characters in a play.
- Composer:** The artist who writes music for a musical.
- Lyricist:** the artist who writes words to the music in a musical.
- Actor:** the artist who embodies or puts themselves "in the shoes of" a character or characters in a play or musical to tell that character's story to the audience.
- Audience:** a group of people who attend a live event like a theatre performances to watch, listen, and respond to the event on stage.
- Director:** the artist who works with the writers, actors, and designers to tell a clear story on stage for the audience.
- Stage Manager:** The artist who manages the onstage and backstage areas before, during, and after a performance.
- Costume Design:** A costumer designer chooses and creates the articles of clothing that characters wear on stage to help tell the audience who the characters.
- Sound Designer:** an artist that creates the mood or atmosphere of the play through the use of sound, sound effects, and music in a play or musical.
- Props:** Objects used by a character on stage to help tell the story. Ex: A character may use a prop like an umbrella on stage if it is raining in that scene of the play.

EXPLORERS' OATH



I solemnly swear
To be a curious explorer
To respect and protect our oceans
To reach for the stars with wonder
To care for all life on Earth
For we share one planet and one dream—
UNITED, WE EXPLORE!



K-5 Student to Family Cooperative Activity Ideas:

- Create a home theater space: Dedicate a specific area in your home as a temporary theater space. It can be anywhere with a little bit of space to "put on a show". Create a cozy ambiance with lighting and comfortable seating.
- Create tickets and programs: Design and print them at home or even hand made. Deliver the tickets to family members, and the programs can include information about the performance, cast, and crew. This adds a touch of authenticity and excitement.
- Snack bar and concessions: Set up a snack bar or concessions stand with a variety of treats and refreshments. You can even create special themed snacks related to the performance you are watching.
- Interactive viewing experience: Encourage audience participation during the performance. For example, during a musical, you can sing along to the songs and clap during applause-worthy moments!
- Post-show discussions: After the performance, have a family discussion about the show. Share your thoughts, favorite moments, and discuss the themes or lessons portrayed. This can foster critical thinking and encourage creativity in your kids.
- **Remember, the goal is to create a memorable and immersive experience. Adapt these ideas based on your family's preferences and the resources available to you. The key is to have fun and enjoy the theater experience in your digs!**

Additional Activity Ideas:



- Memory jars: Create a memory jar with your children. Write down favorite childhood memories on small pieces of paper and put them in a jar. Each week or month, take turns pulling out a memory and sharing it. This can spark conversations and lead to further discussions about your childhood experiences, and theirs too!
- Bedtime stories: Instead of reading traditional bedtime stories, take turns sharing personal stories from your childhood. These could be tales of adventure, funny incidents, or heartwarming experiences. This can create a strong bond between you and your children as you share personal narratives.
- Encourage your kids to create their own journals or scrapbooks to document their childhood memories. Take the opportunity to share your childhood stories as you help them with their own projects. You can even contribute by adding some of your own stories or mementos to their journals.
- What was your favorite song, band or genre growing up? Play a few songs for your child/children and let them play a few of their favorites for you!
- Create traditions with your child/children!: Establish special rituals or traditions that you can share. It could be a weekly movie night, cooking together on weekends, going for a walk after dinner, or singing at the top of your lungs before bedtime.

Standards Alignment: Janet's Planet Astronaut Vs. Aquanaut

Standards Alignment: The activities in this guide are aligned with the standards listed below. When teachers incorporate the arts, they increase student engagement, offer multiple points for students to access the curriculum, and provide alternate means for students to demonstrate what they know.

Florida's Benchmarks for Excellent Student Thinking (B.E.S.T.)/NGSSS	
Kindergarten through Grade 12/ English Language Arts	
ELA.K12.EE.1.1	Cite evidence to explain and justify reasoning.
ELA.K12.EE.2.1	Read and comprehend grade-level complex texts proficiently.
ELA.K12.EE.3.1	Make inferences to support comprehension.
ELA.K12.EE.4.1	Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.
ELA.K12.EE.5.1	Use the accepted rules governing a specific format to create quality work.
ELA.K12.EE.6.1	Use appropriate voice and tone when speaking or writing.
Next Generation Sunshine State Standards/Science	
SC.3. E.5.4	Explore the Law of Gravity by demonstrating that gravity is a force that can be overcome.
SC.5. P.13.1	Identify familiar forces that cause objects to move, such as pushes or pulls, including gravity acting on falling objects.
SC.5. N.1.6	Recognize and explain the difference between <u>personal opinion/interpretation</u> and verified observation.



My Theater Review

I saw: _____

Reviewed by: _____

This play/musical was about...

Here's a drawing of
my favorite character:

It made me feel:

I learned:

I gave this play/musical stars.



**We'd love to hear from you! If you'd like to submit this review,
please send to jenriquez@browardcenter.org**