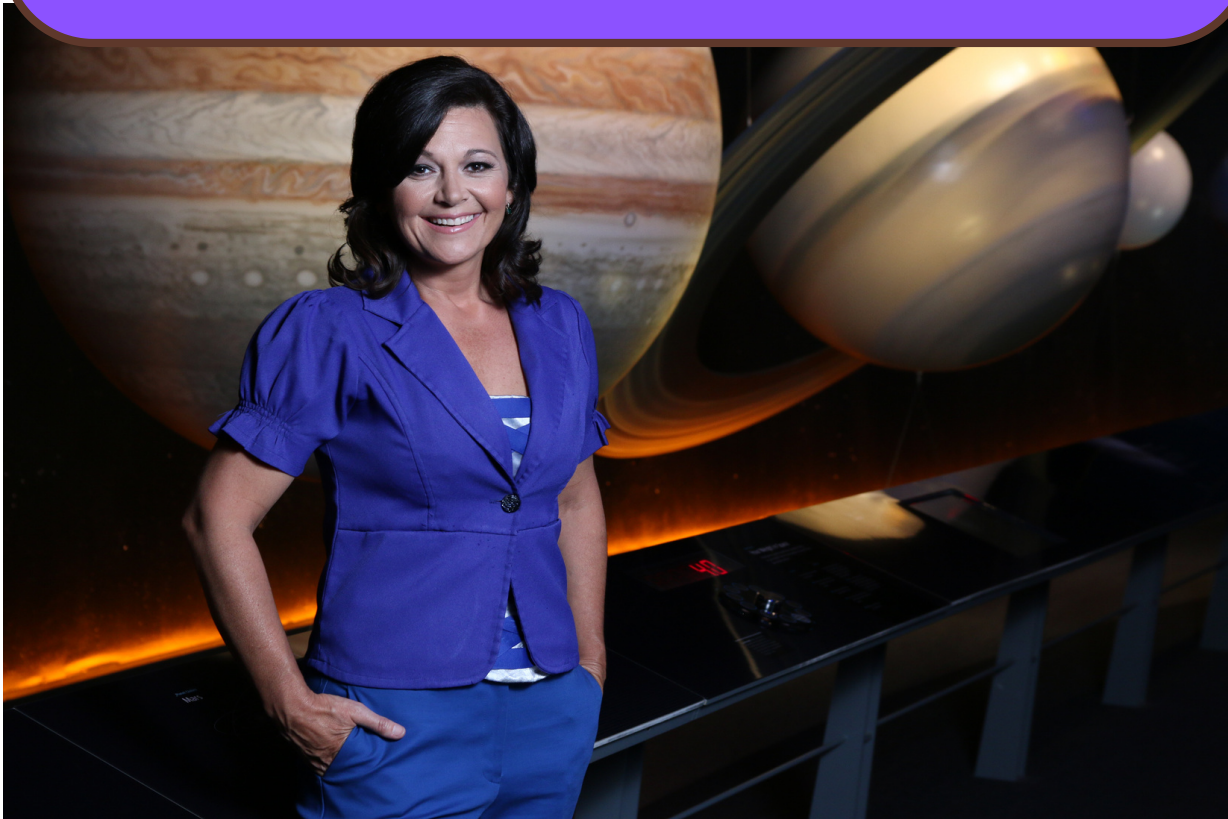


# JANET'S PLANET: EXPLORING MICROGRAVITY 6-8

## CURRICULUM CONNECTIONS



Support for the Student Enrichment Through the Arts program has been provided by the following Funds at the Community Foundation of Broward:

**Mildred H. Fagen Charitable Fund**

**Leonard & Sally Robbins Fund**

**Mary and Alex Mackenzie Community Impact Fund**

**The Frederick A. DeLuca Foundation Broward Community Fund**

# **JANET'S PLANET: EXPLORING MICROGRAVITY**

## **How to use Curriculum Connections:**

Dear Teacher,

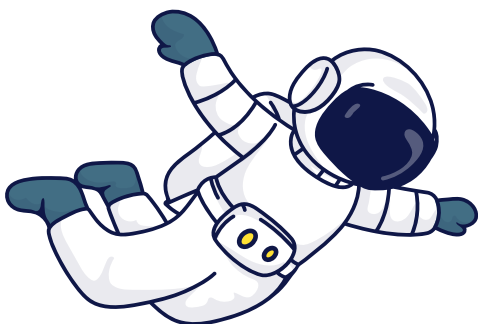
We appreciate you!

This guide can help in your classroom, whether before or after coming to see a play or musical it can be used to highlight important concepts. The curriculum connections introduced by the Broward Center for the Performing Arts are always aligned to the Florida Standards with the idea that they introduce another tool to effectively implement engaging methods to bring the page to the stage.

Curriculum Connections improve comprehension, help students organize information, and assist students' metacognition by enabling students to check for understanding. It is designed to be used before or after coming to the theater unless otherwise stated and may contain activities for certain grade levels (this will be clearly labeled).

Curriculum Connections will always contain a reminder of theater etiquette as well as a social emotional learning activity, and a Student-Family Cooperative Activity. The activities may be re-printed for individual use, used on smart boards as class activities, or in groups. It is suggested to discuss the play or musical as a class before your field trip.

Remember to follow us on Facebook and Instagram @Broward Center Education and use the QR code (below) for our Teacher's Lounge to receive insight about discounted tickets and information for you and your students!





# Theater etiquette

It is often 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) at the end. This shows the performers that you respect and appreciate their work.

# JANET'S PLANET: EXPLORING MICROGRAVITY

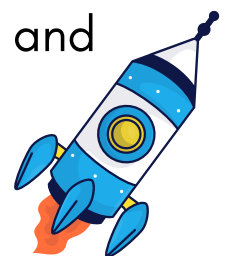
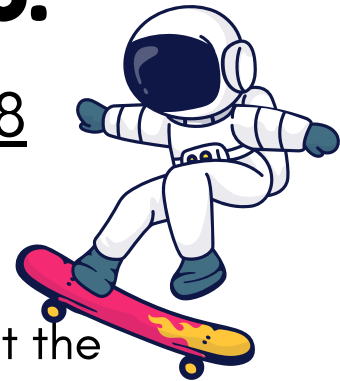
**Watch before you go:**

[https://youtu.be/S3o50SA\\_bX8](https://youtu.be/S3o50SA_bX8)

## **Synopsis:**

“Exploring Microgravity,” where Janet brings to light the legendary heroes of science such as Galileo, Sir Isaac Newton, and Henry Cavendish, and their groundbreaking theories that have shaped our understanding of the universe. “Exploring Microgravity” is a super interactive show with lots of opportunities for the audience to participate in demonstrations to try and DEFY gravity!

With Janet’s fun and engaging approach, students will experience complex concepts in an accessible way helping them to retain more information and develop a deeper understanding of what astronauts experience in space. Numerous studies have shown that visual components are crucial to the modern student’s ability to grasp complicated concepts. With “Exploring Microgravity,” Janet has created an unforgettable learning experience that will inspire and educate students of all ages.



# JANET'S PLANET: EXPLORING MICROGRAVITY SPACE

## WORD SCRAMBLE

Unscramble the following space words



ATORSNTUA \_\_\_\_\_

PTENLAS \_\_\_\_\_

SCPEA  
STLTHUE \_\_\_\_\_

STRAS \_\_\_\_\_

MNOOS \_\_\_\_\_

SNU \_\_\_\_\_

SEPCA STUI \_\_\_\_\_

CMOTSE \_\_\_\_\_

RKCTEO \_\_\_\_\_

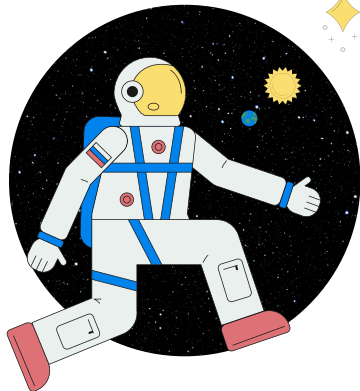
FLATO \_\_\_\_\_

GTIRAYV \_\_\_\_\_

OBITR \_\_\_\_\_

# JANET'S PLANET: EXPLORING MICROGRAVITY

## EXPLORING SPACE CLASS CHALLENGE



Complete the boxes with information about space exploration.

**The first person to fill five in the same row /column correctly wins!**

A person who goes into space	The closest planet to the sun	Measurement of how much matter is in an object	What astronauts wear to go outside the shuttle	The space shuttle takes off like a...
The space shuttle lands like an...	The last planet of the Solar System	What astronauts use to move things outside the shuttle	The smallest planet in the Solar System	The third planet (our home)
What astronauts do when there's no gravity	An activity that astronauts do in space	The hottest planet in the Solar System	What astronauts use to tie sleeping bags to walls	What astronauts do to keep clean
The planet that has bright rings	When you go up, what pulls you down?	What astronauts eat	A very small amount of gravity	An activity that astronauts do in space
What astronauts use to go into space	What astronauts use to fly the space shuttle	What astronauts use to sleep	An object that astronauts use to see things far away	The number of moons that Earth has

# JANET'S PLANET: EXPLORING MICROGRAVITY INVESTIGATING FORCE

Push the following objects with different amounts of force.  
Estimate using informal measurements then measure using  
formal measurement. Record below:

Object	Force	Estimate	Measure
ball	gentle		
	strong		
toy car	gentle		
	strong		

**GROUP WORK!**




# JANET'S PLANET: EXPLORING MICROGRAVITY

## INVESTIGATING FORCE CONTINUED

Now you and your partner choose two items to measure.

Estimate using informal measurements then measure using formal measurement. Record below:

Object	Force	Estimate	Measure
	gentle		
	strong		
	gentle		
	strong 		

**GROUP WORK!**



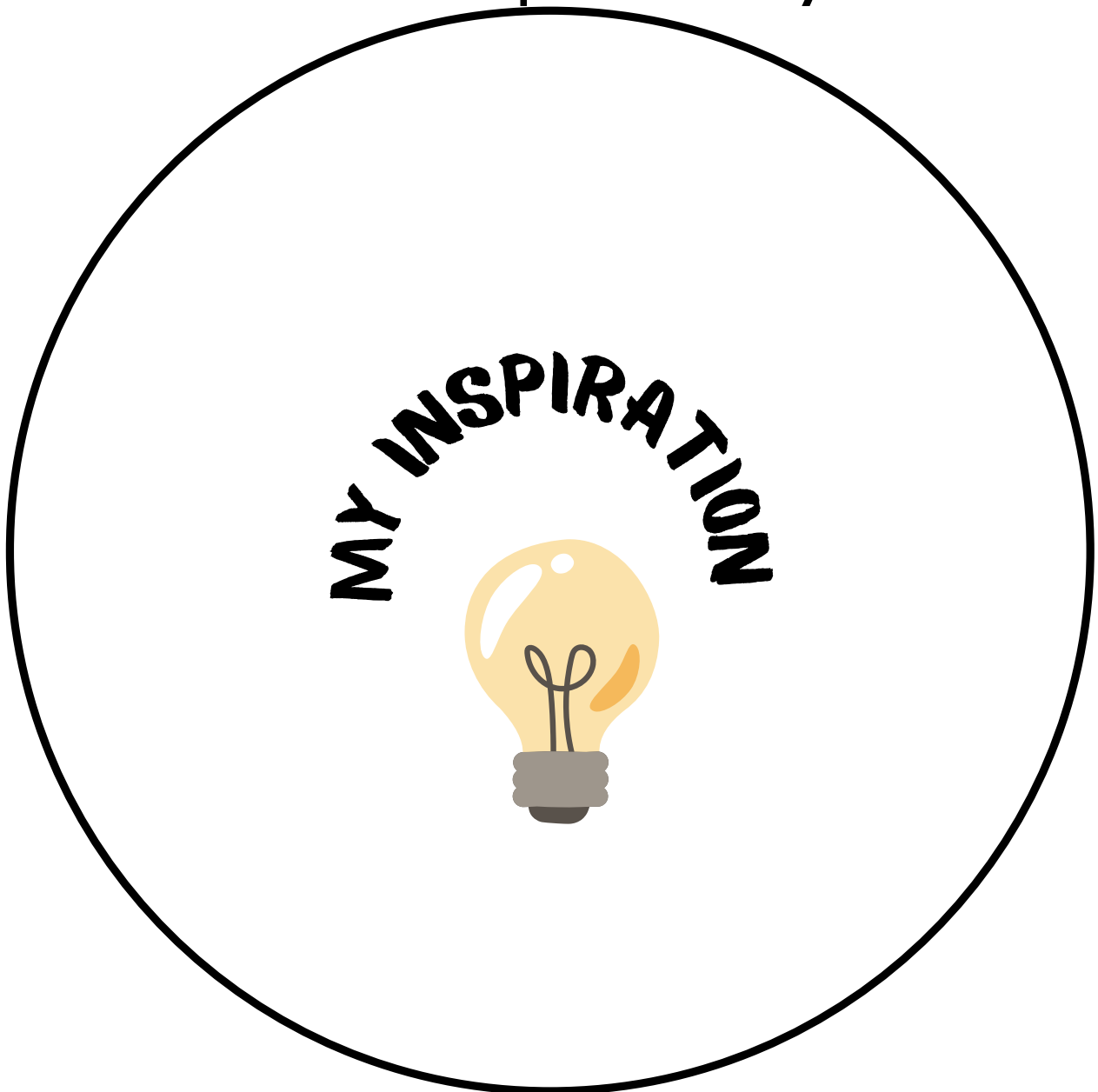
# JANET'S PLANET:SEL

Scientists are often inspired  
by others!

Brainstorm a list of things that make you feel inspired or creative. These could be places, items, people, activities, or anything at all.

Write your thoughts in the circle below.

I am inspired by...



# M/H Student to Family Cooperative Activity Ideas:

- Cook a themed meal: If the play had cultural or culinary references, consider cooking a themed meal together as a family. Research recipes from that culture or recreate dishes mentioned in the play. This culinary exploration can add a delicious dimension to your theater experience and allow you to immerse yourselves further in the production.
- Watch a related film or documentary: If there are any film adaptations or documentaries related to the play or its subject matter, plan a family movie night to watch them together. This can provide additional context, offer a different perspective, or deepen your understanding of the themes explored in the theater production.
- Share impressions and discuss the play: Sit down with your kids and have a conversation about the play you all watched. Share your impressions, thoughts, and emotions. Discuss the elements that stood out to each of you, such as the performances, the set design, or the storytelling. This exchange of perspectives can deepen your understanding and appreciation of the production.
- **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:

- Attend workshops or classes: Look for theater workshops or classes that interest you and your child. Participating in these educational opportunities can help your kids develop their skills, gain confidence, and connect with others who share their interest in the performing arts.
- 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!
- Volunteer or participate in theater activities: If your kids have developed a keen interest in theater, encourage them to get involved in local theater groups or school productions. Volunteer backstage, audition for roles, or assist with set design and costumes. This hands-on experience allows us to gain practical knowledge and further nurture a passion for the performing arts, and the whole family can volunteer with the show!



## Standards Alignment: Janet's Planet Exploring Microgravity

**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.6.P.13.1	Investigate and describe types of forces including contact forces and forces acting at a distance, such as electrical, magnetic, and gravitational.
SC.6.P.13.3	Investigate and describe that an unbalanced force acting on an object changes its speed, or direction of motion, or both.
SC.6.P.13.2	Explore the Law of Gravity by recognizing that every object exerts gravitational force on every other object and that the force depends on how much mass the objects have and how far apart they are.
SC.8.E.5.4	Explore the Law of Universal Gravitation by explaining the role that gravity plays in the formation of planets, stars, and solar systems and in determining their motions.
SC.8.E.5.7	Compare and contrast the properties of objects in the Solar System including the Sun, planets, and moons to those of Earth, such as gravitational force, distance from the Sun, speed, movement, temperature, and atmospheric conditions.



# New:

Each time you submit student work,  
your name is entered in a drawing  
for tickets to a show

at the Broward Center:

Fall Show: **HADESTOWN**

Spring Show: **MRS. DOUBTFIRE**

Dear Teachers,

Thank you for your continued support of the SEAS Program. We value the preparation you make before the show to attend the Broward Center for the Performing Arts, and the introduction you forge for the students when the show has concluded to continue making connections long after the buses have returned to school!

If you'd like to share any of the work from the study guides, please use this link:

Click Here to Upload Student Work Samples:

**<https://tinyurl.com/SEAS2324-samples>**



Should you have any questions, please contact  
Lauri Foster at: <mailto:lauri.fostere@browardschools.com>

