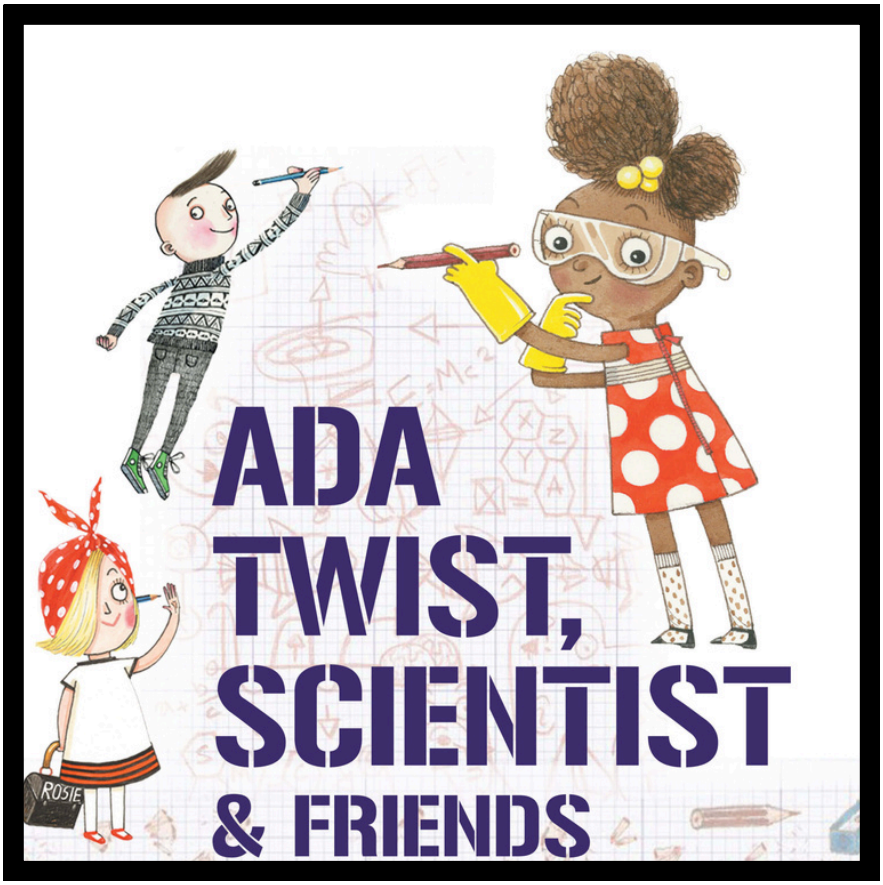
BROWARD CENTER FOR THE PERFORMING ARTS®

SEAS
STUDENT ENRICHMENT THROUGH THE ARTS

Established 1915
BROWARD County Public Schools

CURRICULUM CONNECTIONS

Ada Twist, Scientist & Friends



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COMMUNITY FOUNDATION OF BROWARD

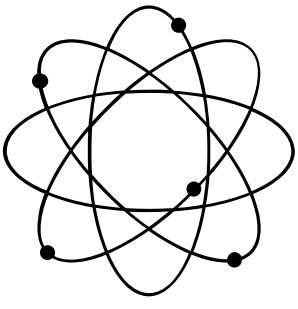
Leonard & Sally Robbins Fund • Mary and Alex Mackenzie Community Impact Fund
The Frederick A. DeLuca Foundation Broward Community Fund

What's included in Curriculum Connections:

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



BROWARD CENTER FOR THE PERFORMING ARTS®
EDUCATION PROGRAMS

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.

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!

BEST TEACHER EVER

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:

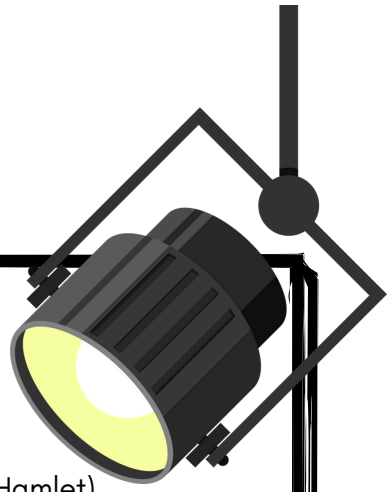
- Restroom visits are best made prior to the performance.
- Listen carefully to the ushers and your teachers. This gets everyone to your seats quickly and ensures a pleasant experience.
- Turn watches and cell phones to silent.
- Walk single file, hold hand rails as you use the steps for your safety.
- 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.

FROM PAGE TO STAGE

An adaptation in theater is when a book, short story, novel, or even a poem is transformed into a stage performance, like a musical or play. The original story is usually kept at the core, but parts may be changed or added, such as songs, dialogue, or characters to make it work better for a live audience.

VOCABULARY OF AN ADAPTATION

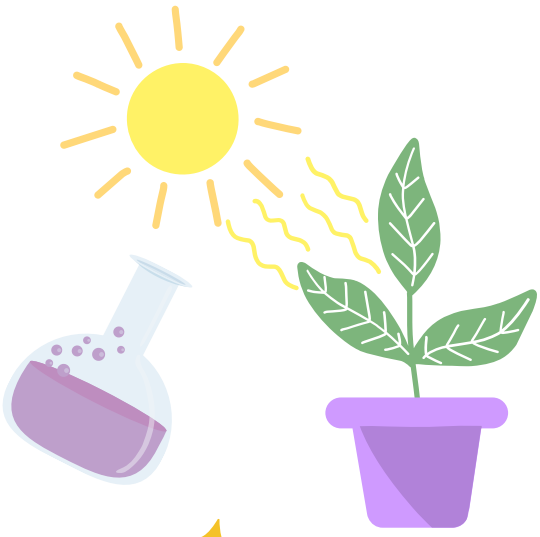
Adaptation: Something that has changed so that it can be presented in another form.
Author: A person who writes something such as a book or an article.
Characters: the individuals portrayed by actors in a play or musical.
Composer: A person who writes music.
Director: A key creative figure in theater responsible for overseeing the artistic aspects of a production.
Lyricist: A person who writes the words of a song.
Playwright: A person who writes plays.
Scriptwriting: Turning narration into dialogue and scenes.



Here are 10 of the most famous stage adaptations:

Les Misérables	Les Misérables by Victor Hugo
The Lion King	Based on Disney's animated film (inspired by Hamlet)
Wicked	Wicked by Gregory Maguire (a reimagining of The Wizard of Oz)
Matilda the Musical	Matilda by Roald Dahl
Harry Potter and the Cursed Child	Harry Potter series by J.K. Rowling
The Phantom of the Opera	Le Fantôme de l'Opéra by Gaston Leroux
To Kill a Mockingbird	To Kill a Mockingbird by Harper Lee
Hamilton	Based on the Alexander Hamilton biography by Ron Chernow
The Wizard of Oz	The Wonderful Wizard of Oz by L. Frank Baum
Oliver!	Oliver Twist by Charles Dickens

ADA TWIST SCIENTIST
& FRIENDS



Here's the Story...
This new musical adaptation is based on the beloved and bestselling Rosie Revere books by Andrea Beaty and David Roberts.
Ms. Greer's classroom includes three inquisitive out-of-the-box thinkers. Rosie Revere has big dreams. Iggy Peck has a relentless passion for architecture. And Ada Twist's curiosity can drive her teacher crazy. But all three are needed to save the day when their fieldtrip goes awry! By using their engineering know-how and problem-solving skills, they are able to get everyone home safe and sound.

Want to hear watch the story read aloud?
https://youtu.be/aco_HxQPBsQ?si=4XN1IED1UYgaCCKY

ADA TWIST SCIENTIST & FRIENDS

Our Characters:

ADA TWIST
Nonstop energy, with a constantly shifting focus.
Happy, excited full of ideas and questions. Talks too fast and doesn't always listen to the answers to questions she peppers at people. Careless due to her excitable nature. She's a Scientist.

ROSIE REVERE
Ambitious but also shy. A sweet kid who is used to blending into the background (where she can secretly build machines) as she presumes that no one will understand her ideas. She is recently energized by her Great Great Aunt Rose and is now testing out her own confidence. She's an Engineer.

IGGY PECK
A sophisticated young man in the body of a second grader.
Fine on his own. A dreamer but a dreamer that can realize his ideas. Straightforward. Calm. Confident.

MISS LILA GREER
Teacher, worrier, prim, proper and always a little nervous.

GREAT GREAT AUNT ROSE
Adventurous and fun, always cheering Rosie on.

VOCABULARY

ADA TWIST SCIENTIST & FRIENDS

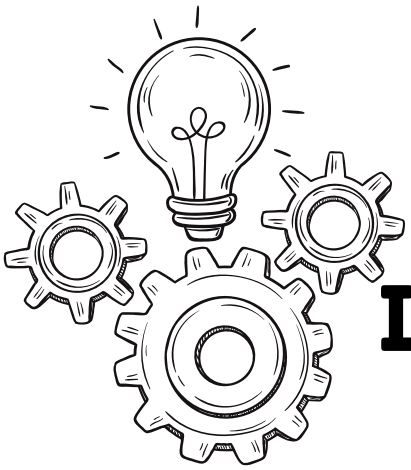
Directions: Use the word bank at the bottom of the page to decide which best describes the definition and write that word on the blank line.

1. A person who designs structures, like buildings. _____
2. Doing the work of creating the building. It also means the design of a structure. _____
3. Someone trained in the skill of creating engines or machines. _____
4. A mountain or a hill from which lava and ash are released. _____
5. A science that looks at matter and energy and the galaxy. _____
6. A science that looks at what substances make up our world, from the air we breathe to the things we use. _____
7. A small tower on top of a larger tower on a castle. _____
8. To ask questions and discover answers about anything at all. _____
9. A journey that people take with a purpose in mind, usually to investigate something. _____
10. The speed at which something is moving, usually fast. _____

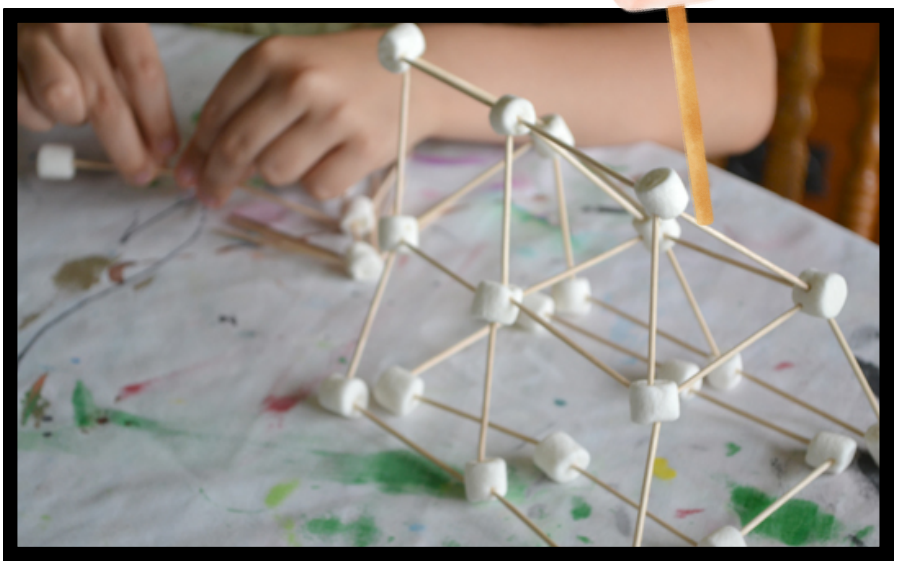
Word Bank:

expedition	velocity
turret	architechure
physics	investigate
engineer	chemistry
architect	volcano

ADA TWIST SCIENTIST
& FRIENDS



Let's be marshmallow engineers:



<u>Attention marshmallow engineers:</u>

Look at your index card and build a structure according to your teachers specifications and time restrictions.

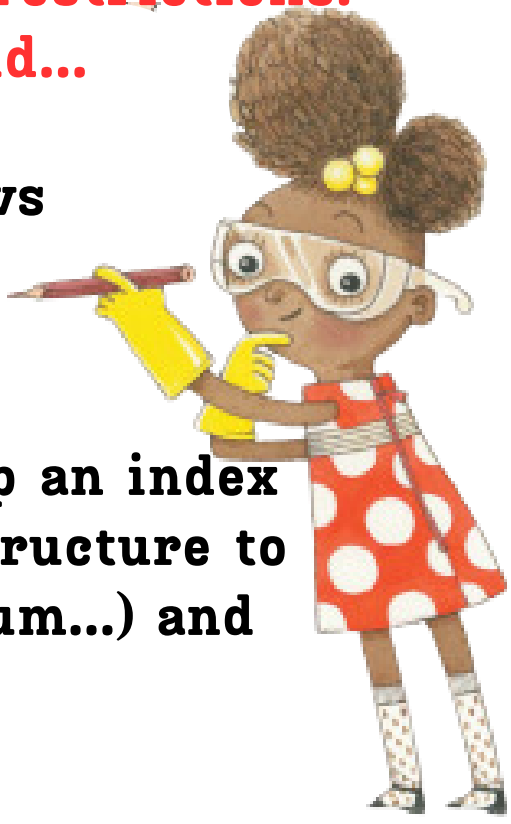
Ready, Set, Build...

You will need:

mini marshmallows

toothpicks

imagination



TEACHERS:

Give each student or group an index card with the name of a structure to build (bridge/tower/stadium...) and set your timer!

ADA TWIST SCIENTIST & FRIENDS

STEM Challenge
Magnet Magic

Objective

To explore the magnetic properties of different objects.

Materials

- magnet
- Assorted objects (paperclip, coin, plastic spoon, pencil, eraser, scissors, etc.)

Instructions

- Lay out many different objects on a table or the floor.
- Predict (hypothesize) which objects you think will be attracted to the magnet and which won't.
- Test each object by bringing the magnet close and observing any attraction or repulsion

Challenge Questions

- Which objects were attracted to the magnet, and which ones were not?
- What materials are attracted to magnets, and why?
- Can you sort the objects into two groups: magnetic and non-magnetic?
- How could you increase the magnetic force between the magnet and the objects?

ADA TWIST SCIENTIST & FRIENDS

Elements Scavenger Hunt

Elements from the Periodic Table can be found everywhere.
Place an X over any element you've heard of and write underneath where it can be found.

1 H Hydrogen 1.008	3 Li Lithium 6.94	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998403163
10 Ne Neon 20.1797	11 Na Sodium 22.98976928	12 Mg Magnesium 24.305	13 Al Aluminium 26.9815385	14 Si Silicon 28.085
15 P Phosphorus 30.973761998	16 S Sulfur 32.06	17 Cl Chlorine 35.45	19 K Potassium 39.0983	20 Ca Calcium 40.078
24 Cr Chromium 51.9961	25 Mn Manganese 54.938044	26 Fe Iron 55.845	28 Ni Nickel 58.6934	29 Cu Copper 63.546
30 Zn Zinc 65.38	35 Br Bromine 79.904	47 Ag Silver 107.8682	50 Sn Tin 118.710	53 I Iodine 126.90447
74 W Tungsten 183.84	79 Au Gold 196.966569	80 Hg Mercury 200.592	82 Pb Lead 207.2	84 Po Polonium (209)

ADA TWIST SCIENTIST & FRIENDS

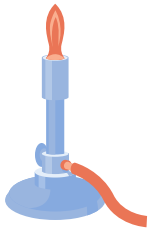
Lab Safety

Question 1: Why do we need safety rules in the science lab?

Answer:

Question 2: How does our science lab day differ from a normal classroom day?

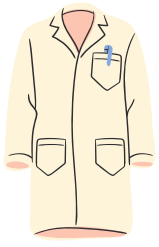
Answer:

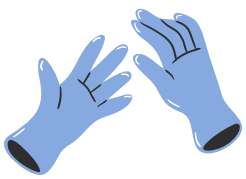


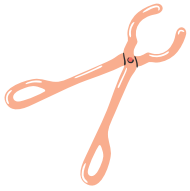
Question 3: What are some of the risks and dangers in a science lab?
List your answers in the table below:

Question 4: Match each picture to the name and description of how this piece of safety equipment will reduce the risk of an accident in a science lab.

Gloves	Safety Glasses	Tongs	Lab Coat
We use these to hold hot objects when conducting an experiment with a bunsen burner	We wear these when conducting an experminet with chemicals to protect our hands from chemical burns	We wear this to protect our bodies from dangerous chemicals when conducting experiments	We wear these to protect our eyes from chemicals or objects when conducting experiments.

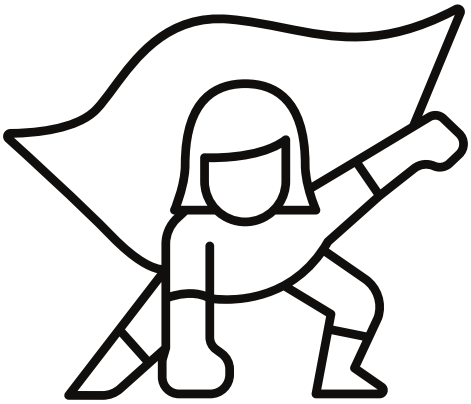






ADA TWIST SCIENTIST CLASS PROJECT & FRIENDS

In the play, Rosie's Great Great Aunt Rose, is based on a figure from American history named **Rosie The Riveter.**



The 'real' **Rosie the Riveter** was a famous fictional character in American history. During World War II, millions of American men were overseas fighting. So, all the jobs that kept the country running were left without anyone to do the work. Women took the place of the men who usually worked these jobs. The American government created a poster to encourage women to get jobs in factories, farms, and mills.

The strong woman on the poster was nicknamed **Rosie the Riveter** because one of these important war-time jobs was working the factories that produced equipment for the troops.

These were factories in which women rarely, if ever, worked. World War II was one of the first times in our history that women had access to jobs traditionally worked solely by men.

FEMALE TRAILBLAZERS: CLASS PROJECT

1. Separate the class into 5 groups, depending upon classroom size and management strategy.
2. Assign a female trailblazer to each group.
3. Ask one student to be the group note-taker.
4. Have the students do some research about this figure. This research can be done online or in the library.
5. Have the students write down 3 or more important facts about their assigned figure.
6. The student volunteers read their research aloud to the class and share what they learned.

GET CREATIVE with presentation ideas!

HERE ARE JUST A FEW TRAILBLAZERS...

MARIE CURIE/ROSA PARKS/AMELIA EARHART/MALALA YOUSAFZAI/JANE GOODAL

OPRAH WINFREY/ADA LOVELACE/SERENA WILLIAMS/FRIDA KAHLO/WANGARI MAATHAI

MAYA ANGELOU/GRETA THUNBERG/JACINDA ARDERN/RUTH BADER GINSBURG

ADA TWIST SCIENTIST
& FRIENDS SEL AND WRITING

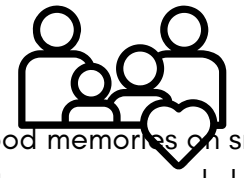
Dear ,

From,

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: Ada Twist Scientist and Friends

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.8.P.8.6	Recognize that elements are grouped in the periodic table according to similarities of their properties.
SC.4.P.8.4	Investigate and describe that magnets can attract magnetic materials and attract and repel other magnets.
SC.2.P.13.2	Demonstrate that magnets can be used to make some things move without touching them.
SC.35.CS-CS.2.4	Solve real-world problems in science and engineering using computational thinking skills.

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