

CREATE A PLANET

OUTERSPACE LOCATION

You have begun to research places for your planet and you've narrowed it down to four choices. Write down four places you would like to have it. Then, conduct some research on its distance from the sun, as well as what it is made of. Once you have chosen a location, use a colored pencil or crayon to color your final

Located between:

_____ and _____
Distance from the sun: _____

Located

Distance from

My Favorite Memory From the Space Trip

What is it made out of?

SPACE COLLECTION

Since this is a brand new planet, scientists will want you to bring back samples to examine and experiment on. What are some things you will find on your planet? List your findings below and explain why you chose each item. You may also draw a picture.

YOUR PLANET LIFEFORM

Do other planets in our galaxy support any lifeform? What about your new planet? Draw a picture below of the lifeform that could be found on your planet. Then, write a descriptive paragraph describing what they look like, what they do, and how they live and survive. Be sure to use complete sentences and details.

ASTRONAUT REPORT

The astronaut has officially landed on the moon. What did he do while he was there? Color their pictures in the photo frames below and then write a quick caption to describe his moon adventure. Use complete sentences and specific details.

THE PLANET DETAILS

Once you have decided on your planet, start planning some details. Use the notes below to help you.

WHAT IS THIS WORLD MADE OF?

It is a great way to set the mood in space or to have a fun time searching for appropriate music for your space playlist. Compare your list to your classmates' and see what is common?

PLANET FACTS

What are the most interesting facts about your planet? Use the brainstorming guide on the previous page to help to decide on the top six facts you would like people to know about your new planet. Be sure to use complete sentences and important details.

Fact #1

Fact #2

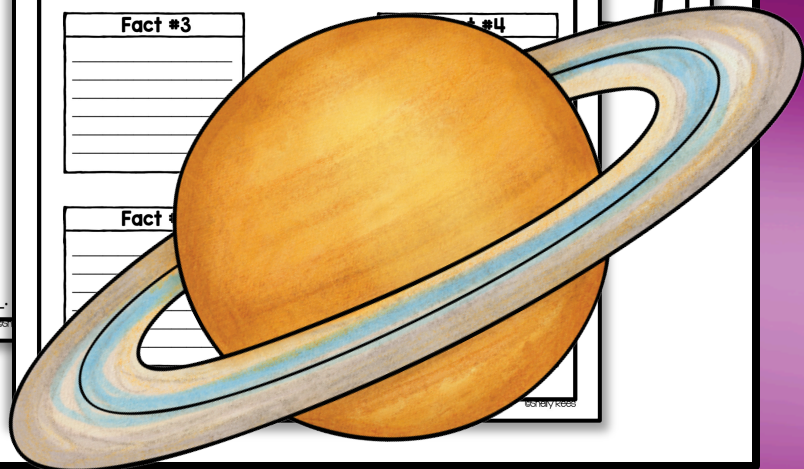
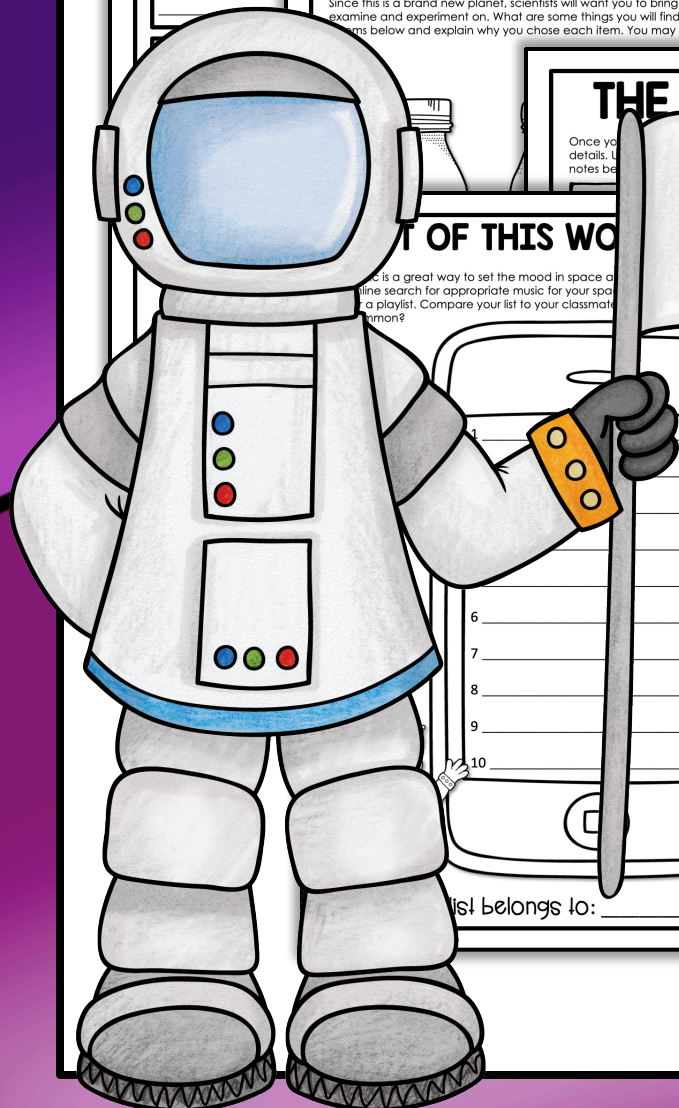
Fact #3

Fact #4

Fact #5

Fact #6

My planet belongs to:



THE PLANET DETAILS

Once you've decided on your location of your planet, it's time to start planning some details. Use this sheet as a brainstorming guide and add 3 ideas to each of the sticky notes below.

Name
•
•
•

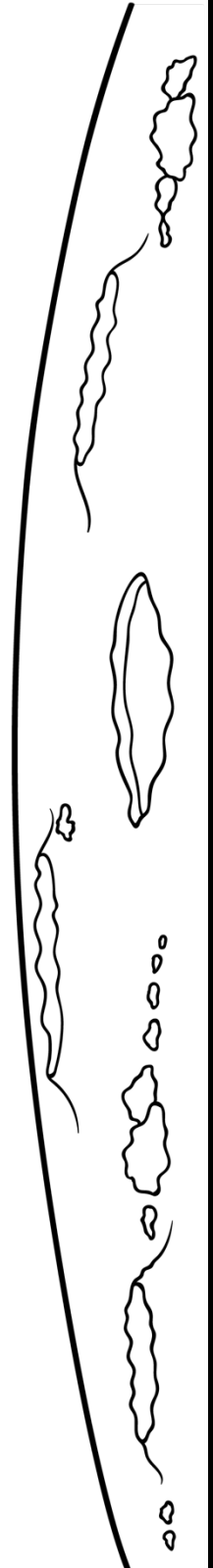
Temperature
•
•
•

How many moons?
•
•
•

Lifeform
•
•
•

Color
•
•
•

Extras
•
•
•



PLANET FACTS

What are the most interesting facts about your planet? Use the brainstorming guide on the previous page to help to decide on the top six facts you would like people to know about your new planet. Be sure to use complete sentences and important details.

Fact #1

Fact #2



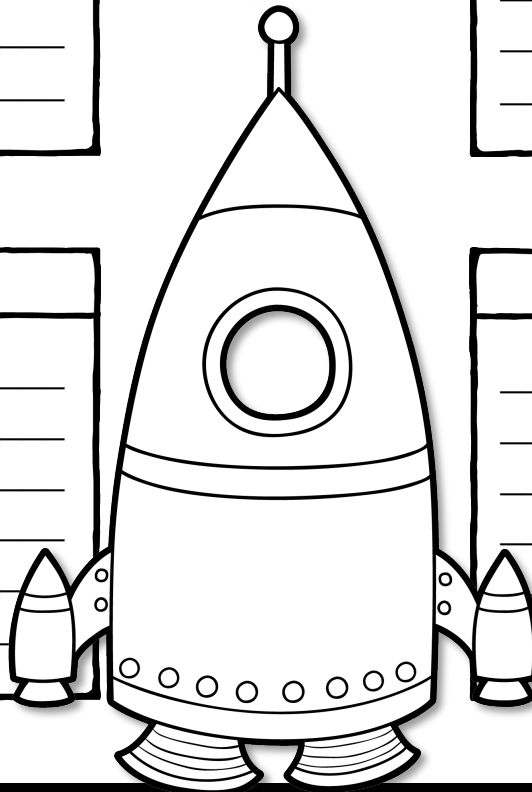
Fact #3

Fact #4



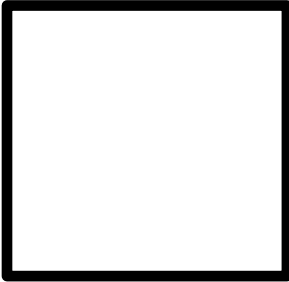
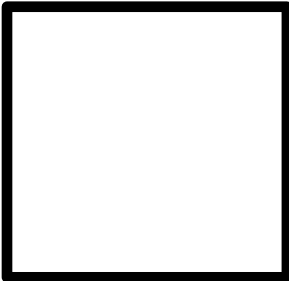
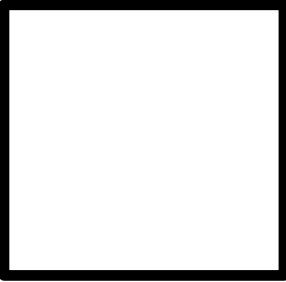
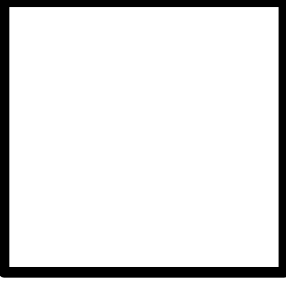
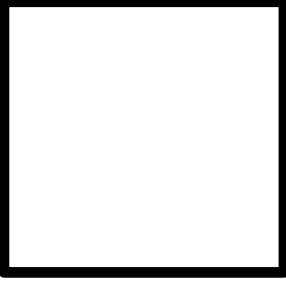
Fact #5

Fact #6

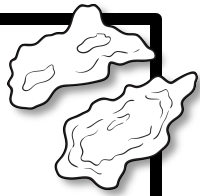


PLANET WEATHER FORECAST

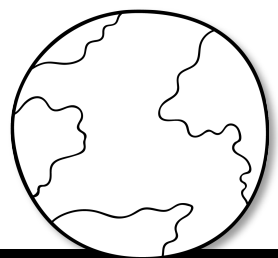
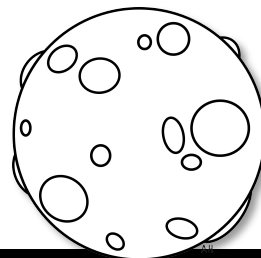
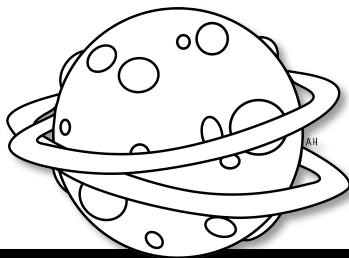
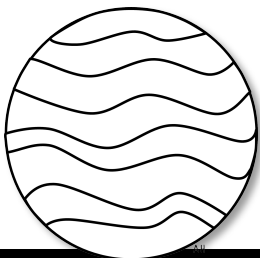
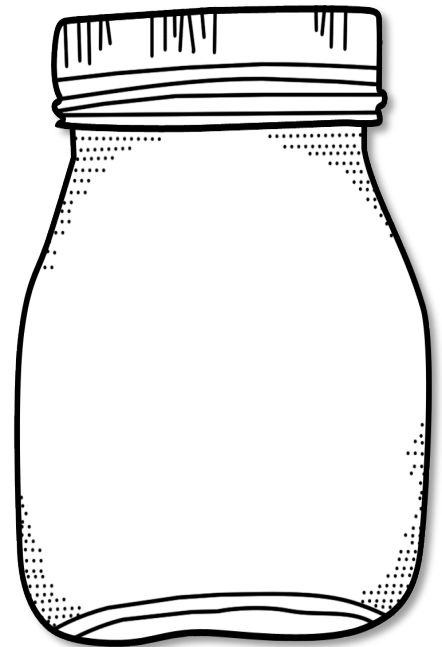
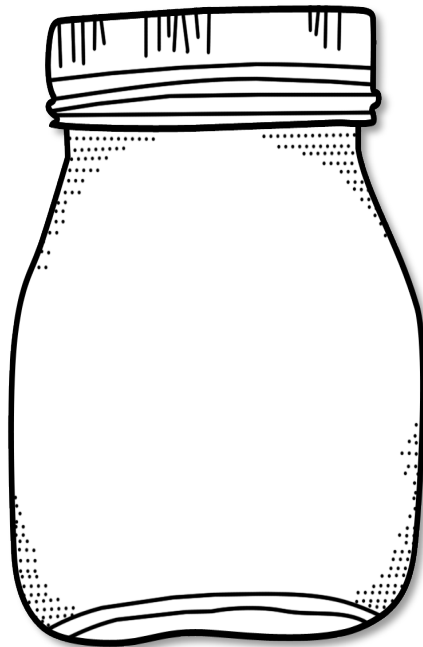
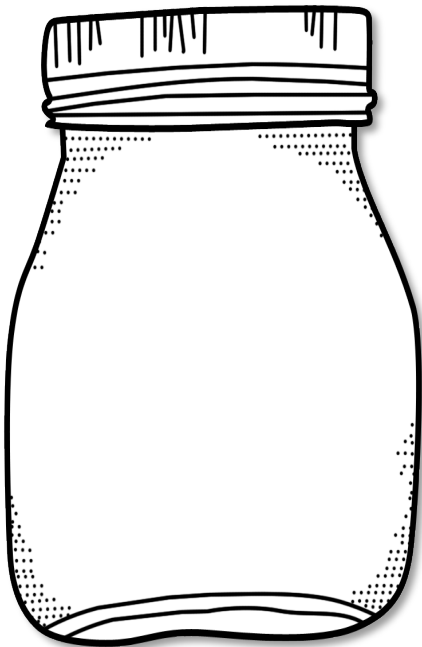
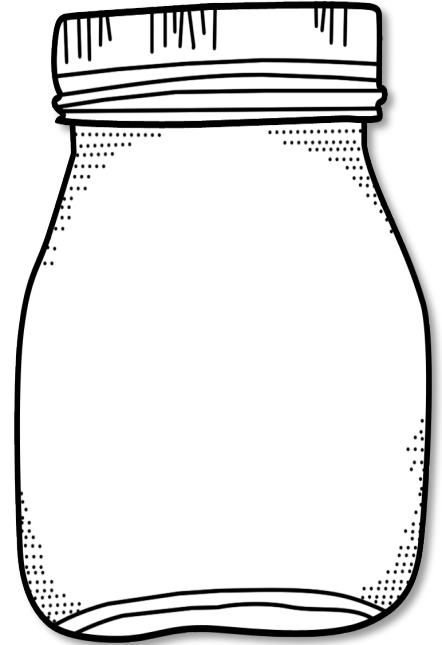
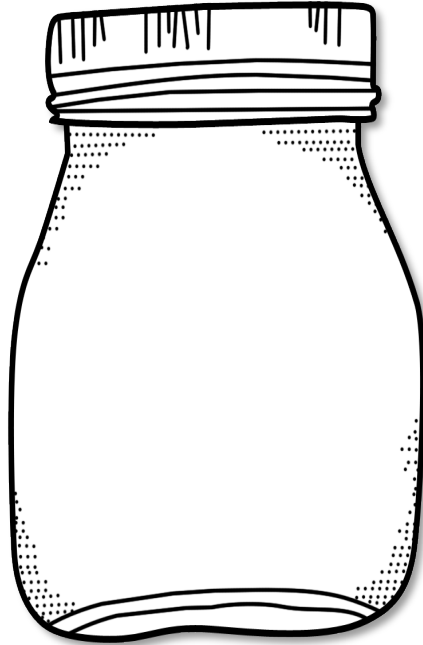
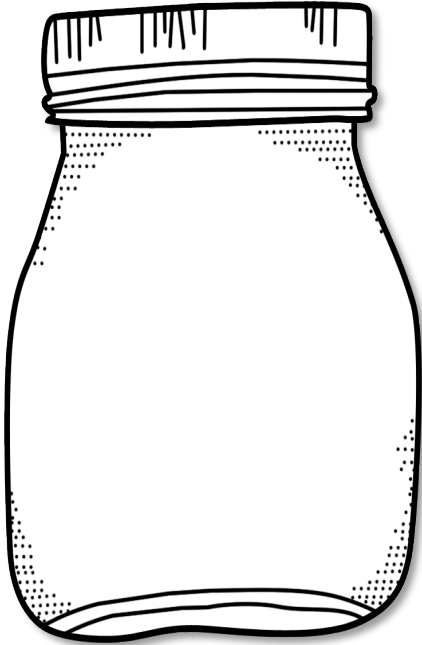
What would a one week weather forecast look like for your planet? What would the days of the week be called? Use your imagination and fill in the forecast for your planet. Make sure to include a picture of the weather, the high and low temperature, sunrise and sunset, as well as a short description of the weather. You want want to research weather forecasts to get some ideas.

 HI _____ LO _____ SUNRISE: _____ SUNSET: _____	 HI _____ LO _____ SUNRISE: _____ SUNSET: _____	 HI _____ LO _____ SUNRISE: _____ SUNSET: _____	 HI _____ LO _____ SUNRISE: _____ SUNSET: _____	 HI _____ LO _____ SUNRISE: _____ SUNSET: _____
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SPACE COLLECTION



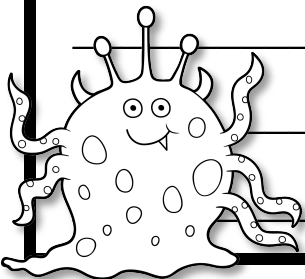
Since this is a brand new planet, scientists will want you to bring back samples to examine and perform experiments on. What are some things you will find on your planet? List your six items below and explain why you chose each item. You may also draw a picture.



MY PLANET'S LIFEFORM

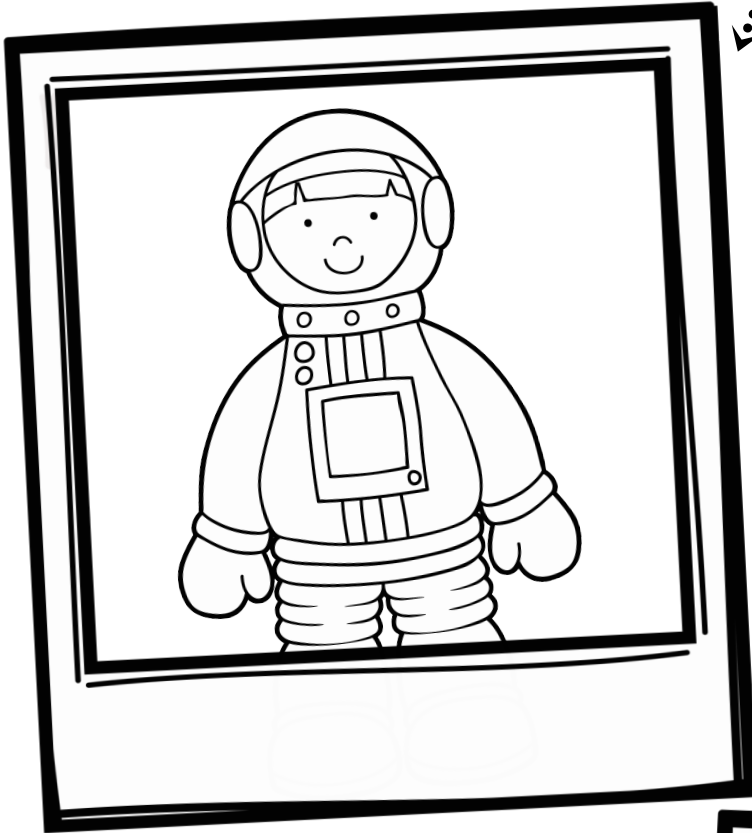
Do other planets in our galaxy support any lifeform? What about your new planet? Draw a picture below of the lifeform that could be found on your planet. Then, write a descriptive paragraph describing what they look like, what they do, and how they live and survive. Be sure to use complete sentences and details.





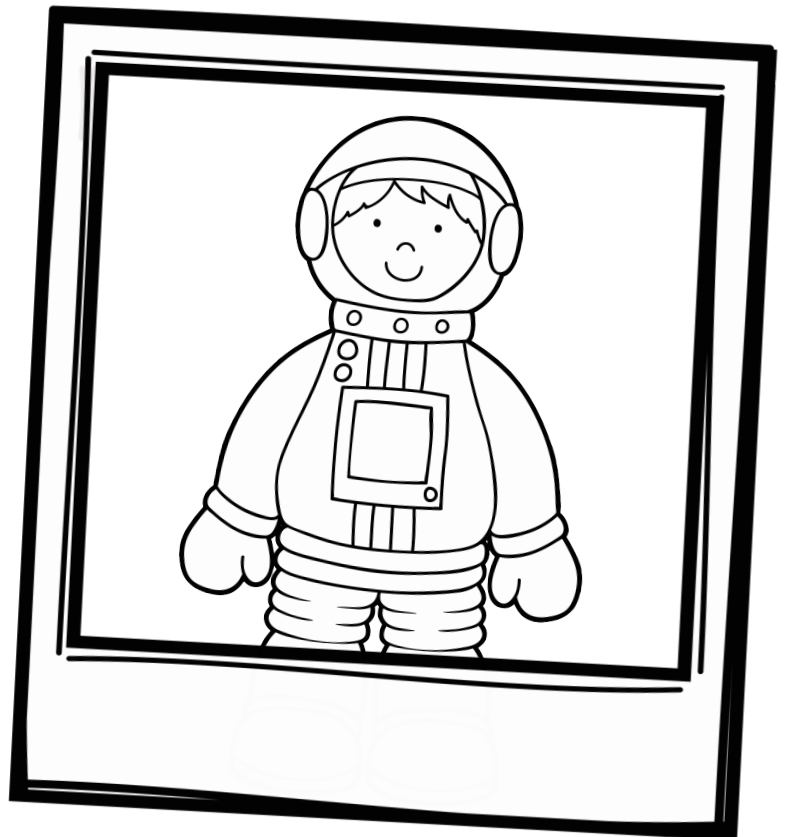
ASTRONAUT REPORT

The astronauts have officially landed on your planet's moon. What did they do while they were there? Color their pictures in the photo frames below and then write a quick caption to describe their moon adventure. Use complete sentences and specific details.



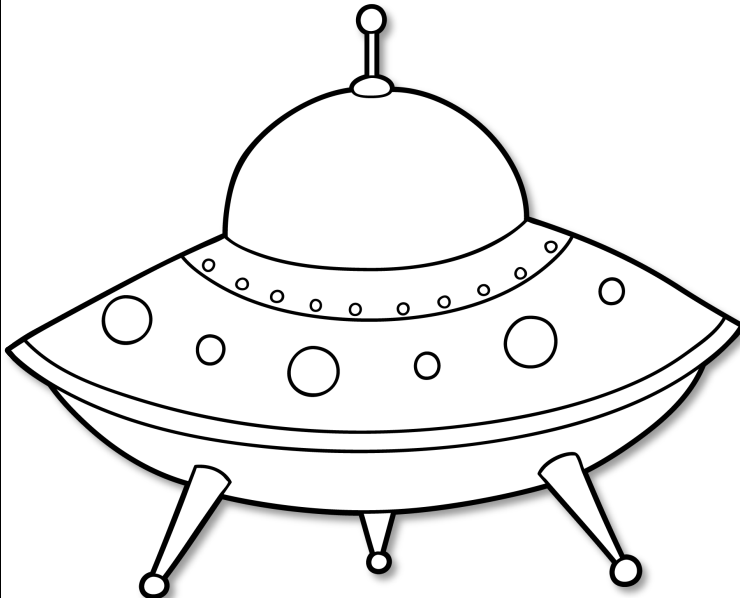
has officially landed...

has officially landed...



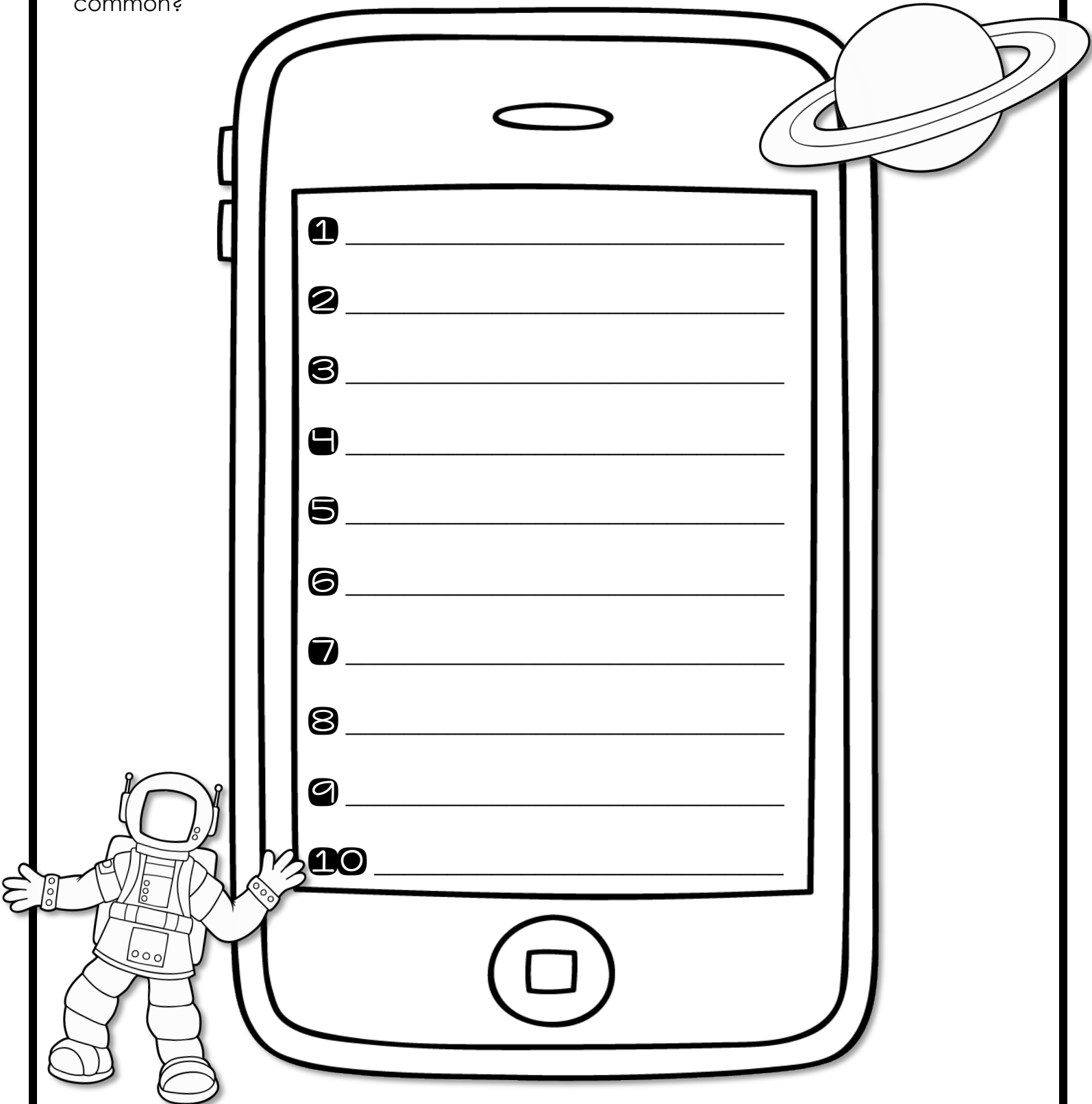
PACK YOUR SUITCASE

There is limited space in the space ship, so you have to take a smaller suitcase. You may only pack 10 items in your bag, so choose carefully. You will be in outer space for one week. List your 10 items below and explain why you chose each item.



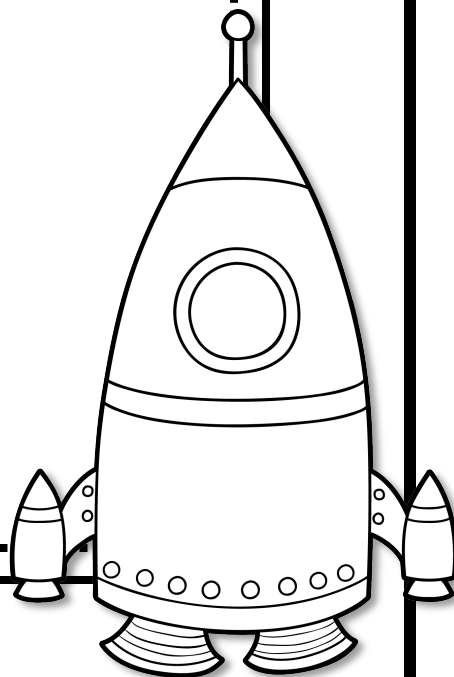
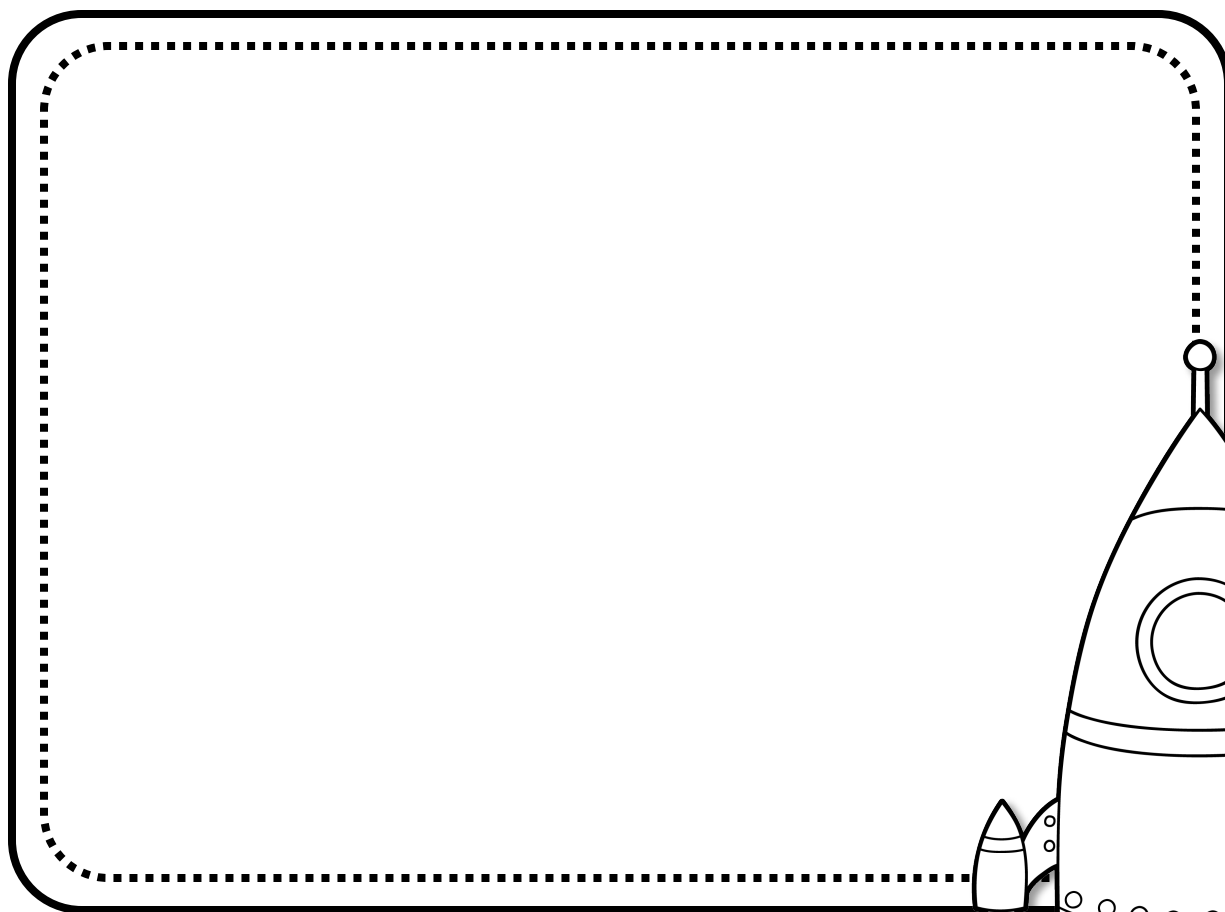
OUT OF THIS WORLD PLAYLIST

Music is a great way to set the mood in space and pass the time while traveling! Do an online search for appropriate music for your space journey and make a list of ten songs for a playlist. Compare your list to your classmates' lists. Do you have any songs in common?



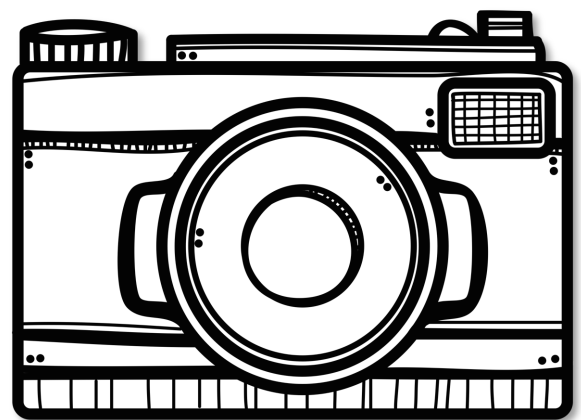
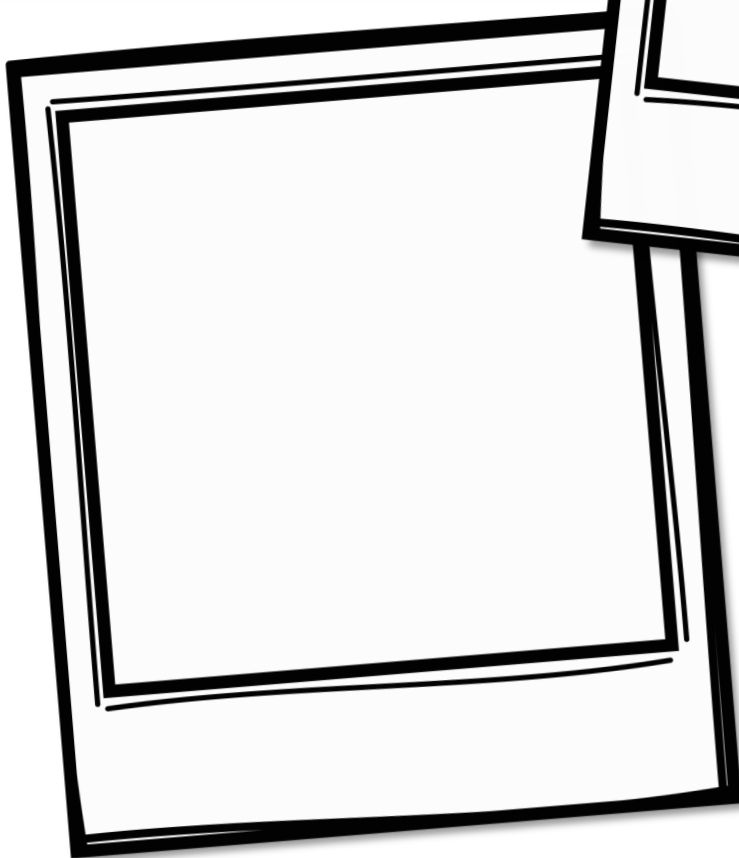
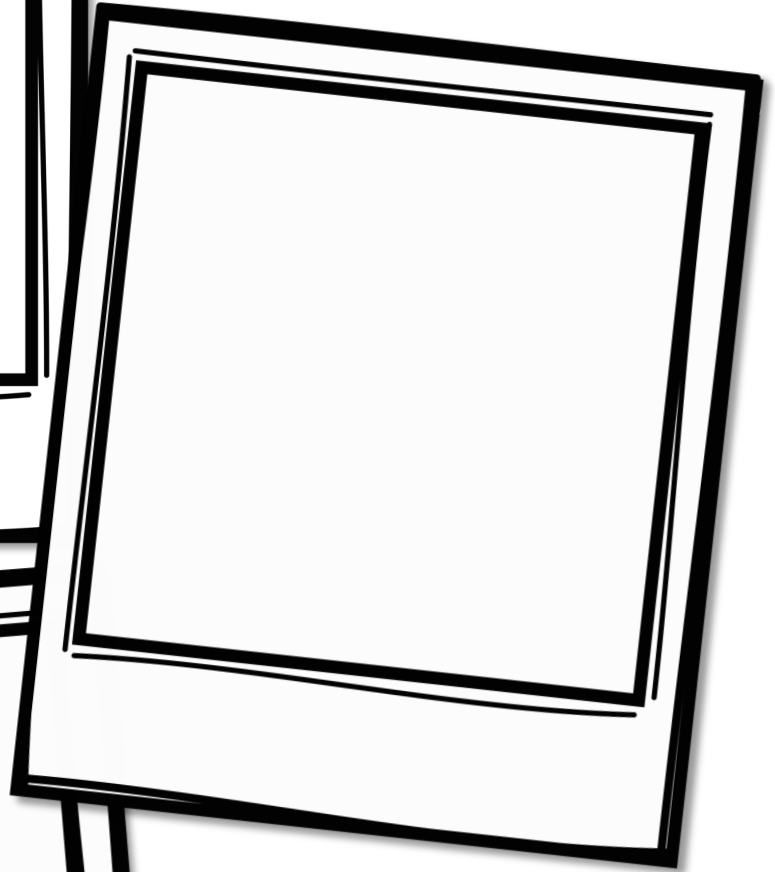
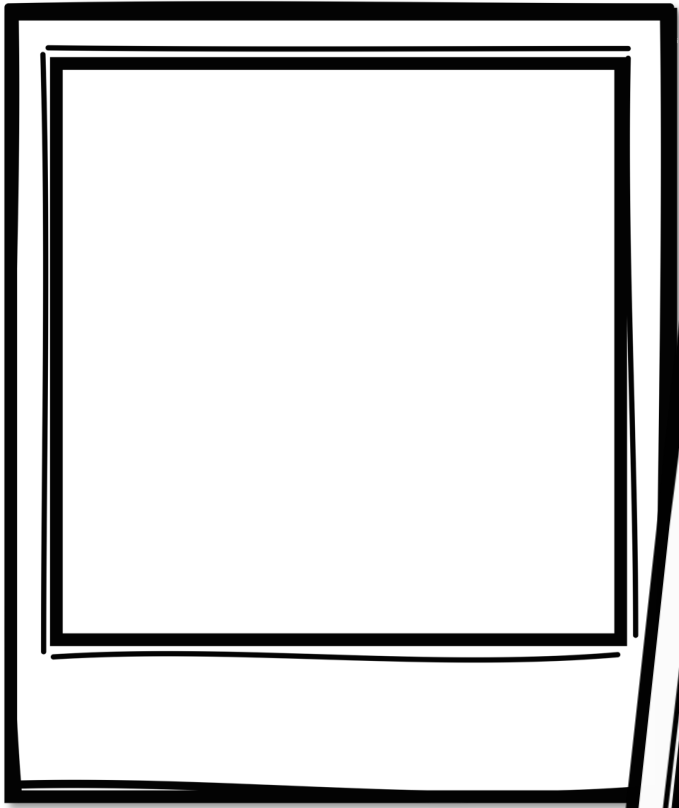
This playlist belongs to: _____.

My Favorite Memory From the Space Trip



SPACE SNAPSHOTS

You will want to take pictures of your space trip to show your friends back on Earth. Create 3 photos from your space trip below.



CREATE A PLANET FINAL PROJECTS

This PBL unit ends with 3 final projects:

Draw Your Planet

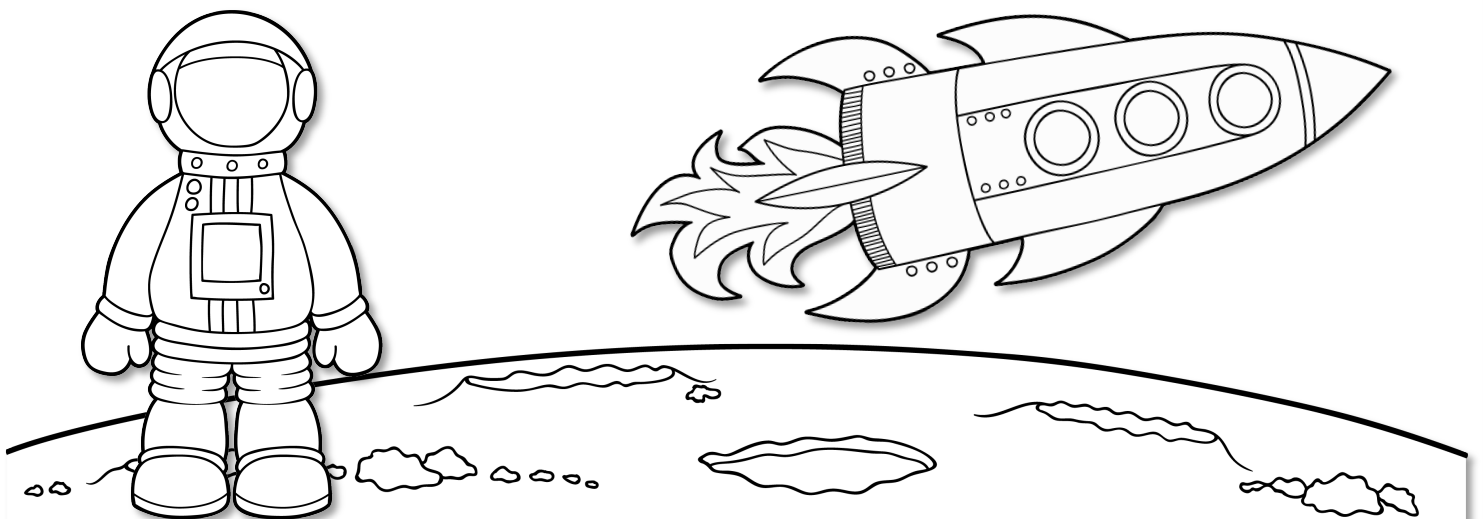
(Spatial Awareness, Planning, Descriptive Writing)

Make a Model Planet

(Problem-Solving, Spatial Awareness, Planning)

Travel Brochure Advertisement

(Government, Civics, Informational Writing)

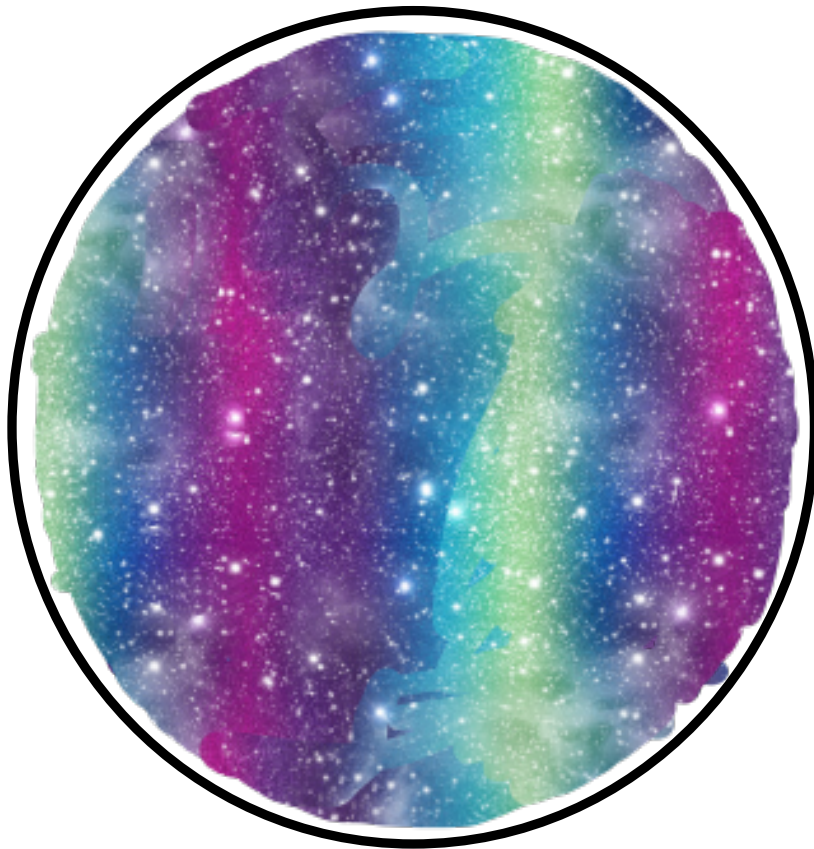


DRAWING YOUR NEW PLANET

Directions:

On the blank paper, create a drawing of your new planet. Be sure to include color and detail in your planet. After you have colored and designed your planet, use the lined paper to write a description of your planet. You may use details from your completed project pages to help you complete your writing.

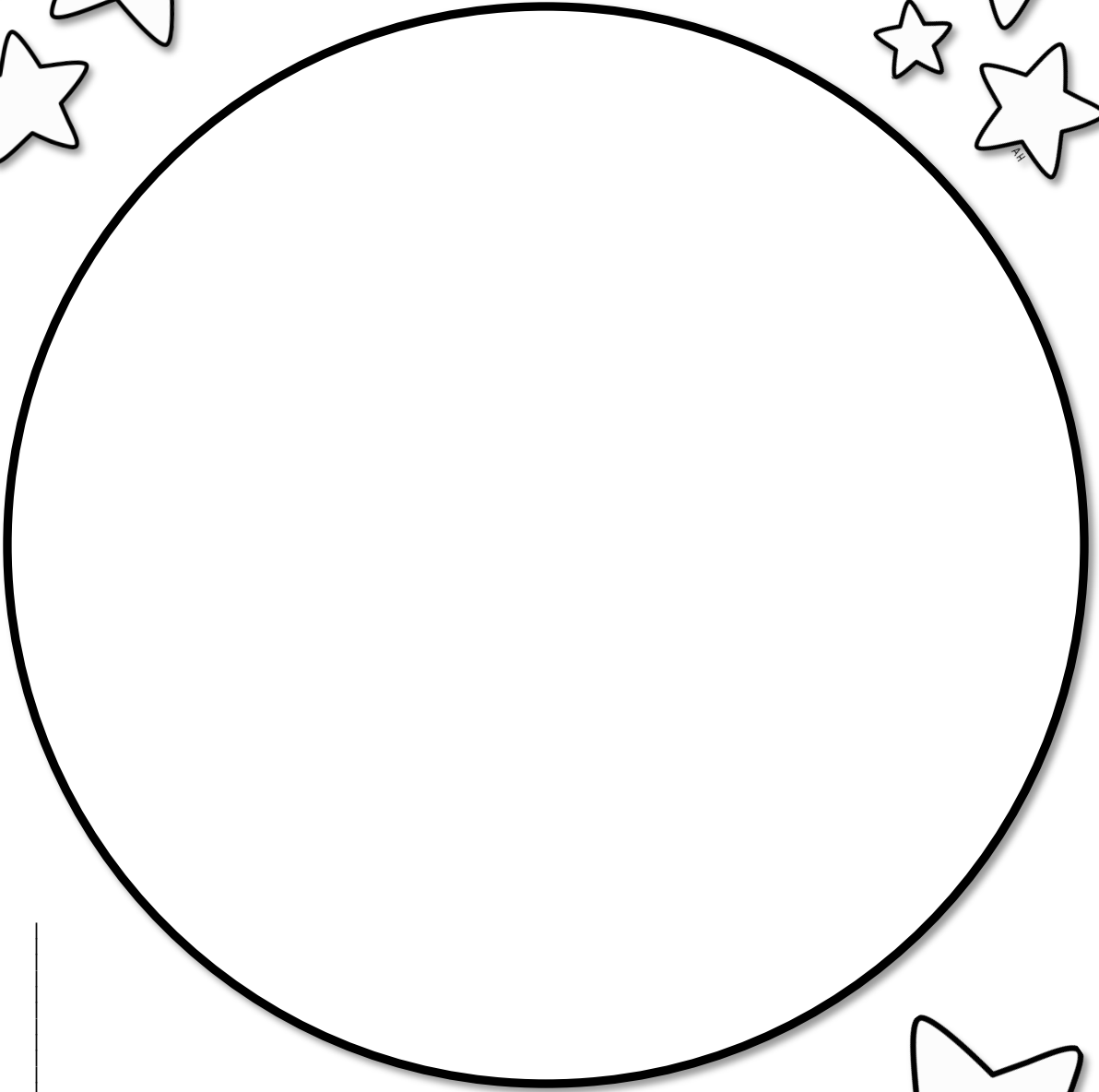
Example Planet Drawing



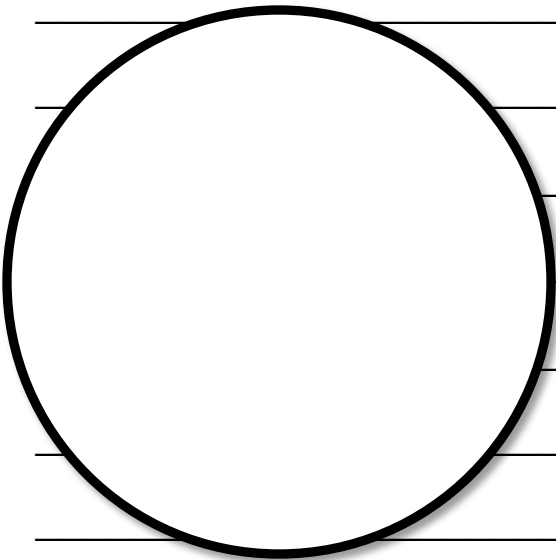
This is my new planet Reflector. It is a very small planet located in the Asteroid Belt between the inner and outer planets. It has been mistaken for an asteroid, which is why it is just now being discovered. An interesting characteristic of my planet is that its surface is made of material similar to a mirror. It is able to reflect the night sky, making it blend in with the Milky Way galaxy. There is a small population of "reflectorlites" that live on the planet. You can find one restaurant and an water park but instead of water, there are pools of glitter slime. You can only visit this planet in the winter time because the light reflects off the planet in the summer and it is too hot for humans.

PLANET DRAWING

Name _____



A series of horizontal lines for writing, spanning the width of the page.



Planet Drawing Scoring Rubric

Name: _____

Date: _____

	4 Exceeds Expectations	3 Meets Expectations	2 Partly Meets Expectations	1 Does Not Meet Expectations
Descriptive Paragraph	The paragraph describes the new planet and provides 3 clear, supporting details in separate sentences.	The paragraph describes the new planet and provides 3 supporting details in separate sentences.	The paragraph describes the new planet and provides 1-2 supporting details.	The paragraph does not describe the new planet, or it does not provide any supporting details.
Conventions	The page is free of grammatical and spelling errors. Sentences are well-constructed and complete.	The page is mostly free of grammatical and spelling errors. Most sentences are well-constructed and complete.	The page contains several grammatical and spelling errors. Some sentences are incomplete.	There are many grammatical and spelling errors. Many sentences are incomplete.
Creativity	The planet is unique and creative in its design.	The planet is creative in its design.	The planet is somewhat creative.	The planet is not creative or unique.
Neatness	The drawing is extremely neat and organized.	The drawing is neat and organized.	The drawing lacks neatness or is not organized.	The drawing lacks neatness and is not organized at all.
Color and Design	The drawing is colorful and has a well thought out design.	The drawing is somewhat colorful and has a design that makes sense.	The drawing has some color and the design does not show planning.	The drawing lacks color and/or planning in the design.
Total Points				

MAKING A PLANET MODEL

Name: _____

Date: _____

Your mission is almost complete! Now that you've drawn a picture of your planet and you've decided on all of the details, it's time to make a model of the planet! Use some of the suggested materials below and the planning page to finalize the details of your model planet. Be sure to make your model planet neat, creative, and original!

Here are some suggested materials:

- Clay
- Foam ball (found at most craft stores)
- Basketball/soccer ball
- Balloon
- Construction paper
- Newspaper/computer paper
- Tape or glue
- Scissors
- Markers or crayons
- Paint
- Any other materials (string, tissue paper, etc.)

CLAY RECIPE:

- 2 cups baking soda
- 1 cup cornstarch
- 1 ½ cups cold water
- Place ingredients in a pan and stir until smooth.
- Set the pan over a medium heat and stir until boiling.
- Stir out any lumps and cook until it is the consistency of mashed potatoes.
Place onto a plate and cover with a damp towel and let cool.
- Cover your surface with cornstarch and knead until flexible.

PAPER MACHE RECIPE:

- Cut 1-inch wide by 3-inch long strips of paper.
- With the help of an adult, bring 5 cups of water to a simmer
- Mix ¼ cup flour and 1 cup of cold water in a bowl until runny.
- Add the mixture to the water in the pot and bring entire mixture to a boil, stirring constantly for 2 to 3 minutes. Allow the paste to cool before using.
- Dip the paper strips into the paste and cover the foam ball in a single layer.

PLANET PLANNING PAGE

Name: _____

Date: _____

1. What materials do you plan to use? _____

2. What is the name of your planet? _____

3. What color will your planet be? _____

4. What are your planet's physical characteristics? Think landforms, satellites, telescopes, etc.

5. Anything extra you plan to include on your model? _____

Create a Planet Model Scoring Rubric

Name: _____

Date: _____

	4 Exceeds Expectations	3 Meets Expectations	2 Partly Meets Expectations	1 Does Not Meet Expectations
Base of Planet Model	The base of the planet is neatly constructed and covered with materials.	The base of the planet is constructed and covered with materials.	The base of the planet is partially covered with materials.	Minimal attempt was made to cover the base with materials.
Planning Page	All questions on the planning page were answered completely.	All questions on the planning page were answered with some detail.	Some questions on the planning page were answered.	Some or none of questions on the planning page were answered with details missing.
Materials and Theme	All materials of the planet clearly support the theme.	Most materials of the planet clearly support the theme.	Some materials of the planet support the theme.	Very few materials of the planet support the theme.
Creativity	The planet is unique and creative in its design.	The planet is creative in its design.	The planet is somewhat creative.	The planet is not creative or unique.
Neatness	The entire planet model is very neatly constructed and is attractive.	The planet model is neatly constructed and is attractive.	The planet model is lacking some neatness.	The planet model is not neatly constructed.
Presentation	The model was presented in a clear, concise manner. The speaker was confident and easy to hear.	The model was nicely presented, and the speaker was easy to hear.	The model was presented, but it was difficult to follow or hear the speaker.	The presentation was incomplete.
Total Points				

LEARN MORE ABOUT
THIS NEW PLANET:

1

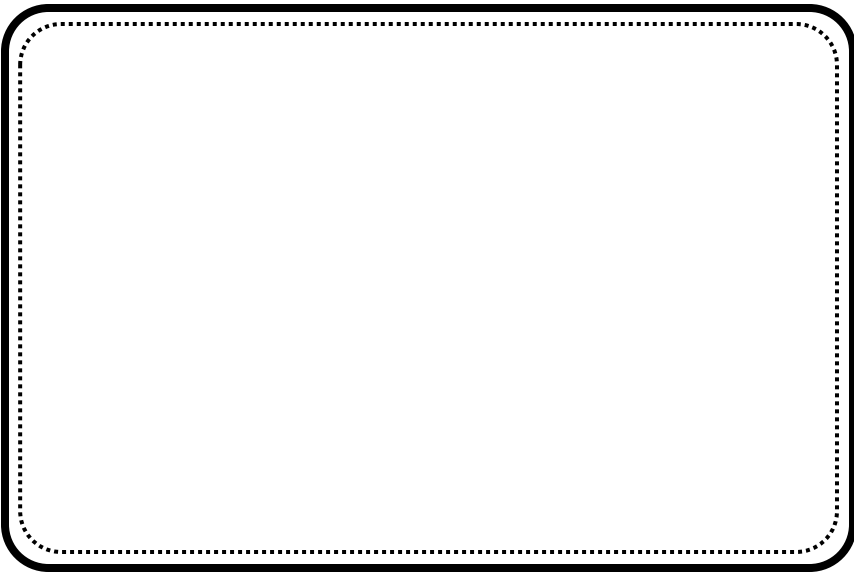
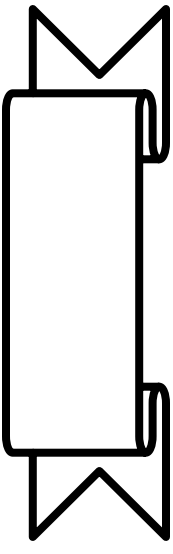
2

3

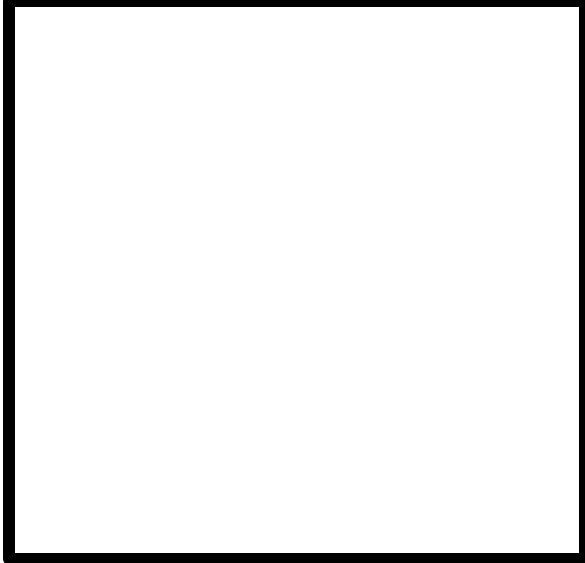
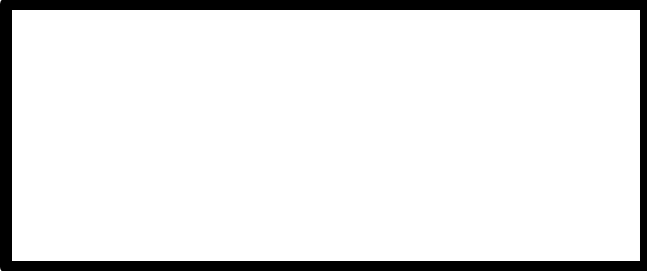
4

5

COME VISIT

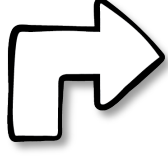


a TRAVEL
brochure by: _____



MUST-SEE
attractions!

INFORMATION AND PRICES



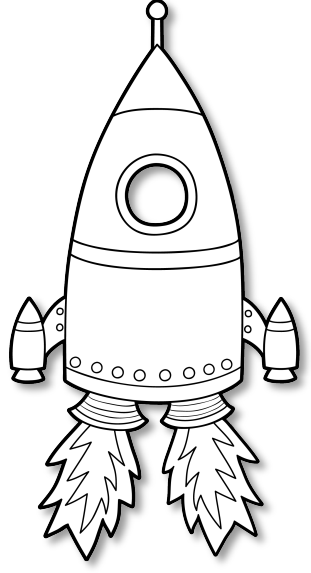
NAME OF PLANET:

ROUNDTRIP SHUTTLE PRICE:

AVAILABLE DATES:

TOTAL TRAVEL TIME:

DEPARTING FROM:



MAP TO PLANET



NEARBY PLANETS:

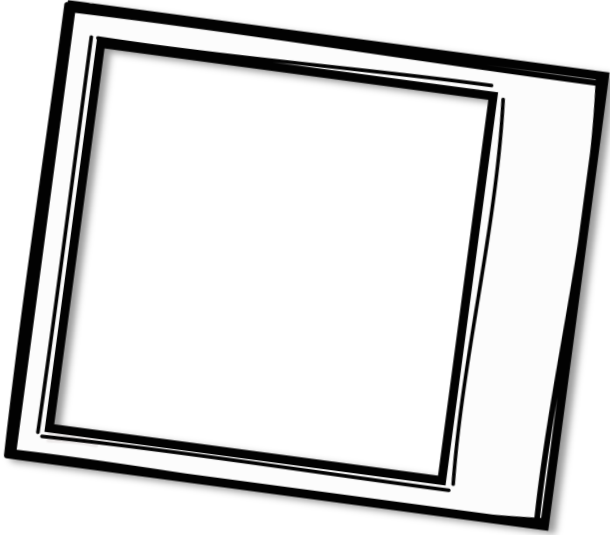
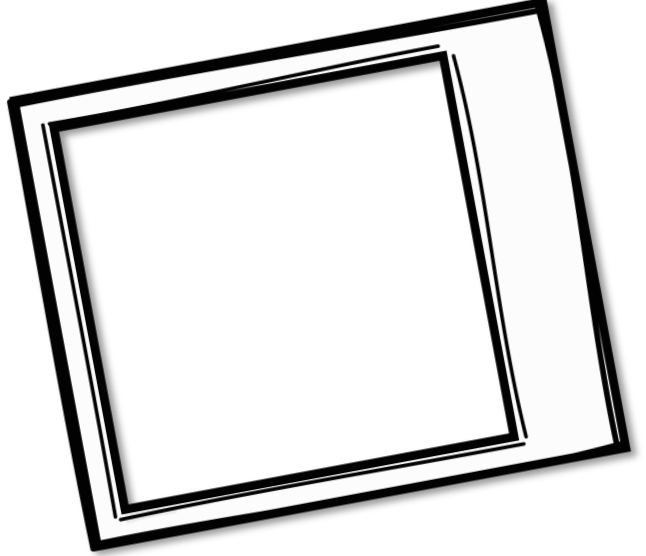


PHOTO GALLERY



Advertisement Brochure Scoring Rubric

Name: _____

Date: _____

	4 Exceeds Expectations	3 Meets Expectations	2 Partly Meets Expectations	1 Does Not Meet Expectations
Visit the Planet Front Page	All sections are correctly completed and planet is neatly colored.	All sections are correctly completed and planet is colored.	Some sections are done and coloring is incomplete.	Minimal attempt was made to complete the information and color the picture.
Learn More about the Planet	All 5 facts are clearly described and given in complete sentences.	4 of the 5 facts are described and given in complete sentences.	2-3 of the facts are described.	Only 1 fact is described.
Photo Gallery	Both photos or drawings are relevant to the planet/outer space and are clearly and neatly presented.	Both photos or drawings are relevant to the planet/outer space.	1 of 2 photos or drawings are relevant to the planet/outer space and are clearly and neatly presented.	Minimal attempt was made to provide 2 relevant photos or drawings in a neat manner.
Map to Planet	The map is relevant, neat, and organized. Map clearly shows how to get to planet.	The map is relevant and organized. Map shows to get to planet.	The map is relevant.	The map is not relevant or complete.
Information and Prices	Information and prices are clearly provided and neatly presented.	Information and prices are clearly provided.	Information and prices are not fully provided.	Information and prices are not provided.
Must-See Attractions	3 relevant planet attractions are shown in a creative, neat, and attractive way.	3 planet attractions are shown in a neat and attractive way.	2 planet attractions are shown in a neat and attractive way.	1 planet attraction is shown.
Presentation	The brochure was presented in a clear, concise manner. The speaker was confident and easy to hear.	The brochure was nicely presented, and the speaker was easy to hear.	The brochure was presented, but it was difficult to follow or hear the speaker.	The presentation was incomplete.
Total Points				