Tessmann
Planetarium
Activity
Book
Hey kids! Can you name that planet?

Earth  Neptune
Mars  Sun
Saturn  Venus
Uranus  Comet
Pluto  Mercury

Write the planet or object's name in the box below the image.
Color this picture of Jupiter and its giant red spot. Did you know that the red spot is a giant storm that is 3 times bigger than the Earth? It's been blowing on Jupiter for at least 350 years and maybe longer.
The Solar System Game

Can you draw each planet in its correct orbit around the Sun? Write the planet’s name near the planet.

Planets (not in order)
- Uranus
- Mercury
- Mars
- Saturn
- Jupiter
- Earth
- Venus
- Neptune
- plus: Pluto

Color the planets using colors that might fit each planet. For example, use blue and white for Earth.

Suggestions: You can make planets different sizes. You don’t have to line them up in a straight line.

Do you know the order of the planets? The sun is in the center. Draw the planets around the sun. Put each planet in the orbit where they belong. You can even add Pluto.

Here’s a hint: My very eager mother just served us nine pizzas. Or if you don’t want to call Pluto a planet, My very eager mother just served us nachos.
Color in this picture of Saturn. Some people think Saturn is the most beautiful planet. It has rings that are made out of tiny pieces of ice. Saturn has 63 moons - only Jupiter has more moons with 67.
How many four or five letter words can you make using the letters in the word PLANETARIUM. I bet you can make at least 10 words. Here, we’ll start you off:

1 PLAN

2

3

4

5

6

7

8

9

10

11
Color in the picture of a Mars rover. Maybe NASA will launch a rover that looks something like this one someday. We have had rovers name Spirit, Opportunity, Sojourner, and Curiosity. What would you name your Mars rover?
Color in this Apollo astronaut holding the American flag on the Moon. 6 Apollo missions went to the Moon and 12 astronauts stood on the Moon’s surface. More astronauts may go to the Moon someday - maybe you! In 1969, the first space mission to the Moon was Apollo 11 and the first spacecraft that landed on the Moon was called The Eagle.
This spacecraft is called Voyager 1. It was the first spacecraft to visit Jupiter and Saturn. It has gone farther than any other spacecraft.

It has a gold record on its side that has photos, sounds, songs and math of the planet Earth. Maybe some day, thousands of years from now, an alien race may find Voyager and find out what life was like on Earth!
Mystery Location Search

Meet Mac and Tessie. They are students at the Intergalactic Institute for Interplanetary Investigation (III*) and it’s time for their final exam. To pass, Mac and Tess have to explore planets and moons around the solar system and solve a puzzle. Here’s a list of places these two astro-cadets need to visit. Join Mac and Tess and help them to unravel the clues.

But beware! Not all of the places on the list will be used in the questions below. They are just there to mix things up a bit.

(*Pronounced eye yi yi )

Mercury       Venus
Earth         Mars
Jupiter       Saturn
Uranus        Neptune
Pluto         Comets
Enceladus

1. I’m as red as a cherry and a favorite place to drive rovers around. Some even bounce on my surface. Write my name and underline the second letter.

2. People tell me I’m Earth’s sister because we’re the same size, but my thick clouds don’t make me a very safe place to visit. I'm the only planet named after a woman. Write my name and underline my last letter.

3. I have a big white heart on my side and I'm everyone's favorite world (I used to be a planet). Write my name and underline the fourth letter.

4. I sound like I would be more at home underneath the sea, but you’ll find me way far out in space past Uranus. Watch out for the scooters. Write my name and underline the second letter.

5. I’m zipping around pretty fast. But don’t forget your sunscreen and sunglasses if you visit. I'm really close to the Sun. Write my name and underline the sixth letter.

6. Holy Hannah! See if you can catch one of us by the tail. Write our name and underline the second letter.
7. I’m a big shot in the solar system. I might remind you of a leopard, I have spots. Watch out for my storm – it won’t be over anytime soon. **Write my name and underline the fourth letter.**

8. I’m a moon of Saturn. People who visit old faithful in Yellowstone Park might like to see my erupting geyser. **Write my name and underline the seventh letter.**

9. I used to be called George, but someone changed my name. Now I’m named after Saturn’s father. I got knocked on my side when I was young. **Write my new name and underline the last letter.**

10. **Put all the underlined letters together. Can you figure out the mystery location from the clues above and help Mac and Tessie pass their final exam?**

**Mystery Letters:**

**Unscramble the letters. What is the mystery location?**

*But wait-- there’s more. Help our cadets win a gold medal as a bonus.*

You might have noticed that there are two places on the list that weren’t used in the puzzle. Can you name those worlds?

Take the two places that haven’t been used. Put all their letters together and scramble them all up any way you like. Now, can you unscramble them to make a three-word phrase that describes what you’ve become while you’re on this treasure hunt?

Here’s some hints:

1. What kind of object is our sun? (Hint: 4 letters)

2. What kind of person tracks down animals? (Hint: 6 letters)

3. Hint: The first word has only one letter.

**Mystery Medal 1st class**

**Medal Unscramble:**

I am a
My Very Eager Mother

There’s a simple phrase to help you remember the name and the order of the planets in our solar system:

My very eager mother just served us nine pizzas.

My (Mercury) very (Venus) eager (Earth) mother (Mars) just (Jupiter) served (Saturn) us (Uranus) nine (Neptune) pizzas (Pluto). The position of each word is the order of the planets from the closest to the farthest from the Sun.

Hold on a second....at least that’s how the phrase used to read while Pluto was still called a planet. You remember all that dwarf planet business.

So we have to come up with a new phrase. Here’s some other suggestions:

My very eager mother just served us nachos. Or how about: My very eager mother just served us noodles. Or perhaps: My very eager mother just served us nothing.

We personally like nachos, but you can make up your own phrase, using all different words, if you’d like. Or you can keep the original phrase - a lot of folks still feel Pluto is important enough to be rub shoulders with the big guys!