**Observation of the solar system**

Ms. Emily’s Lesson Plan From scratch

Arkansas First Grade Science Standards-

**1-ESS1-1** Use observations of the sun, moon, and stars to describe patterns that can be predicted.

**1-ESS1-2** Make observations at different times of year to relate the amount of daylight to the time of year.

**ESS1.A:** The Universe and its Stars- Patterns of the motion of the sun, moon, and stars in the sky can be observed, described, and predicted. (1-ESS1-1)

**ESS1.B:** Earth and the Solar System- Seasonal patterns of sunrise and sunset can be observed, described, and predicted. (1-ESS1-2)

Objectives for this Lesson-

Students will- Observe the planets

Students will- Compare and contrast the planets

Students will- Collect data and help me organize them on a graphic organizer

Students will- observe the solar system and answer questions from their observations

Lesson “Plan”-

Because Science is just beginning to be introduced in the First Grade, we only have Science learning time a couple of days a week. So, when this time comes, it is special, and the kids love it!

In this Lesson Plan, I will be **introducing the Solar System**! I will use [Hubblesite.org](https://hubblesite.org/) to show them images of the Solar System, galaxies and stars to introduce the lesson. Then, I will get on [space.place.nasa.gov](https://spaceplace.nasa.gov/) to explore with them in more depth. On the board I will begin to write down observations about each planet that we find. Such as, the size, texture, name, where it is in the solar system. We will answer questions like:

* Based on their location compared to the sun, which planet do you think is the coldest? Which one is the warmest?
* How many planets are there in the solar system?
* What do you think the ring around Saturn is made from?
* What is a moon? Which planet has the most moons?
* Why isn’t Pluto included in the solar system? What is Pluto?
* Which planet takes the longest time to orbit around the sun?
* Which planet takes the shortest time to orbit around the sun?
* Which planet besides Earth is your favorite and why?

Then, I will introduce them to Inspiration. We will categorize what we found about each planet in a fun, unique, organized way. For them to better understand and compare the sizes of the planets, we will visually create the planets sizes in the graphic organizer as a fun part of the lesson.

Lesson time-

1 hour

Materials-

Inspiration

[Hubblesite.org](https://hubblesite.org/)

[space.place.nasa.gov](https://spaceplace.nasa.gov/)

At the end of the lesson, I will hand each child a slip of paper numbered 1-3. I will read each question and have each student briefly answer it so that I can see if this lesson was effective and what I could change for next time.

1. Tell me 1 thing you learned about the Solar System today.
2. Did the graphic organizer we made help you understand better?
3. What was your favorite part about today’s Science lesson?