

Create An Alien Space Project

Greetings Earthlings!

I am so excited to hear that you are learning about outer space. The planets are so fascinating to learn about. They all have such different characteristics. Some are made of gas, while others have a rocky surface. Some have very thick atmospheres, while others have none.



Your challenge will be to find out more about a specific planet that has been assigned to you. Once assigned a planet you will research it. I have included a graphic organizer and a list of websites for you to use. I also have some book resources for you to use.

You will create two things with your new knowledge:

1. You will create an alien who could inhabit the planet that you have chosen. You will create a 3D model of this alien out of materials you can find at home. **You will need to consider what adaptations the alien would have had to make to survive on this planet.**

2. Your alien will be traveling to Earth in the very near future. The International Space Commission requires that all aliens visiting from outer space have the proper documents. **Therefore, you will create a passport for your alien that has the necessary information about its home planet.**



You will be working in groups of 2. Happy Planning Earthlings!

Ms. Sadler & Mr. Nutter

As You Begin Your Research:

It is important that you use sources that are reliable. Remember anyone can go onto the internet and create a website. This website may have the correct information or it may not. We can check the validity of this information by researching from a variety of different sites and books.

It is also important that we use up-to-date resources. Some books and sites still list Pluto as a planet. In 2006 it was demoted to a dwarf planet.

Here are a list of Reliable Websites:

<http://science.nationalgeographic.com/science/space/solar-system>

This site provides some great information and beautiful pictures. You click on the planets and asteroids to find out more about them.

<https://solarsystem.nasa.gov/planets/solarsystem>

What better place to study planets than from those who studied it themselves? Nasa's site provides an interactive learning environment that takes you through the entire solar system.

http://www.windows2universe.org/our_solar_system/solar_system.html&edu=mid

Here there are great pictures and interesting facts about the planets. There are advertisements so don't click on them! ☺

<http://school.discoveryeducation.com/schooladventures/universe/>

An exploration of the universe with the American Museum of Natural History.

http://www.kidsastronomy.com/solar_system.htm

Kid's Astronomy shows an interactive version of the planets and how they orbit the sun. It even includes meteors, comets and the asteroid belt.

<http://amazingSPACE.org/resources/explorations/trading/>

Click through the links on Amazing Space to find information about your planet!

Passport Requirements

You will need to make a flipbook using two pieces of cardstock and several pieces of white paper. The cardstock will be the front and back covers for your alien passport, while the white paper will be the inside pages for your booklet.

What you will need:

- **Cover—Passport cover page** (you will draw and color an accurate picture of your planet in the space provided—write Interplanetary Space Commission, Passport on the front)
- **Page 1—Introduction Page**
 - Mini-photo of your alien (you will need to take this at the end of the project once your alien is completed)
 - Alien Name
 - Alien Age (on Earth and on its Planet)
 - Alien Weight (on Earth and on its Planet)
 - Planet of Origin/Terrestrial or gas giant?
- **Page 2—Basic Facts**
 - How many planets yours is from the sun (ex. Venus is the 2nd planet from the sun)

- Any moons? If so, provide the number and some basic information about them.
- Atmosphere and Composition
- Weather (if there is any)
- temperature of the planet
- **Page 3—A Day in the Life Page**
 - How fast does the planet revolve around the sun?
 - How fast does your planet rotate?
 - Length of day and year
 - Size of planet
- **Page 4—Interesting Facts**
 - Write a paragraph about your planet that includes some interesting facts.
- **Page 5—Description of Alien**
 - Write a paragraph with a description of your alien. For each characteristic, write an explanation of why the alien would have it. For example, my alien has special skin that protects it from the heat. Venus is a very hot planet so it would have needed to adapt to its extreme temperatures.
- **Page 6—Credits Page**
 - List any sources.

*****You may add more to your passport but the pages above are required.*****

Create Your Alien

When you create your alien, you will want to consider the atmosphere, composition, atmospheric pressure, gravitational pull and other characteristics of your planet. You will try to imagine what kind of life could exist on the planet you have researched.

You can create your alien out of a variety of materials. Consider what these materials could represent on your planet. Maybe the latex of a balloon could represent a special skin. Tin foil cut into pieces could represent solar reflection. Use your imagination!

Here are some suggested materials you could use for your alien:

- | | | |
|-------------------|---|-----------------|
| • 2L Soda Bottles | • Old, cleaned-out jars | • Tin cans |
| • Paper plates | • Construction paper | • Wax paper |
| • Streamers | • Cotton batting or stuffing | • Tin foil |
| • Balloons | • Socks | • Plastic wrap |
| • Googly eyes | • Buttons | • Pipe cleaners |
| • Clay | • Cardboard boxes or shoe boxes | • Cereal boxes |
| • Paint | • Toilet paper tubes or paper towel tubes | • Styrofoam |
| • Fabric | | |
| • Egg cartons | | |

You will create a 3D model of your alien to go along with your passport. Your alien and passport will be due on _____. We will be having a Welcome to Earth celebration that day.

Organize Your Information

Planet Name	
Type of Planet (Terrestrial or Gas Giant)	
Atmosphere If it has one, what is it made of?	
Weather	
Size	
Temperature	
How fast does it: -Revolve -Rotate	
How long is a day on your planet?	
How long is a year on your planet?	
What are some interesting facts about your planet? (Example- Jupiter has a giant red spot that is an ongoing storm. Two Earths can fit in the spot.)	

List any other information that you have found on another sheet of paper and attach it as well as your sources for the assignment. (Sources are where you found your information from.)