

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

An illustration of a person with short hair, wearing a shirt, looking through a large telescope. The telescope is mounted on a tripod and is angled upwards and to the left. The person's face is partially obscured by the telescope's eyepiece.

# An Alien's View of the Solar System

*The goal of this project is simply to diagram the Solar System on a large poster paper. But instead of your traditional diagram, we will be doing the project from the point of view of an alien. You will have two days to complete the project (Wednesday and Thursday).*

**Goal:** Diagram the solar system on a large piece of poster paper, to be sent back to your alien leader. Include the four requirements below.

**Requirements:**

1. Include at least the sun, the eight planets, and Earth's moon. Label them.
2. Note which planets are **terrestrial** (made of rock) and which are **gas giants**.
3. Use pencil to show the **path of orbit** for all planets/moons.
4. Find a suitable location for each of the five **alien installations** listed on the back (only one installation allowed per planet). Then write a short paragraph explaining why you selected each planet as a site.

**Suggestions:**

1. Include additional notes, like how long each planet takes to orbit, what resources can be found on each planet, how long a day and year are, etc.
2. Try to make the planet sizes to scale as well as the distances between planets. But please keep in mind, making your diagram "perfectly to scale" will be impossible on such a small piece of paper.
3. Include other objects found in the solar system (the asteroid belt, the Ort Cloud, etc.).

### **Alien City**



*Place an Alien City on one of your eight planets. Keep in mind that the requirements for life are basically the same for all races; you need a medium temperature, oxygen gas, and liquid water.*

### **Solar Telescope**



*In order to study the sun as a potential fuel source, your leader plans to install a solar telescope on a nearby planet. Keep in mind the telescope will need to be built on a firm surface and the planet's atmosphere must not block the view of the sun.*

### **Global Warming Research Lab**

*Due to problems on your home world, your leader wants to install a Global Warming Research Lab on one of the planets. There you could investigate the effects of greenhouse gasses (ex. CO<sub>2</sub>) on a planet's temperature and climate.*

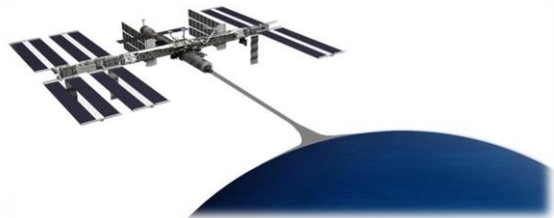


### **Military Outpost**



*It is helpful to have a military outpost in the solar system, just in case your city gets attacked. Keep in mind that even though your outpost can be covered by a bubble, it still needs a rocky surface as well as a medium temperature.*

### **Orbital Mine**



*Your leader also wants to mine a flammable gas from one of the planets so that it could be used to fuel space ships. The mine would orbit the planet, sucking up the gas through a long tube.*