Data Collection Work Sheet: 100 pts. **Name: _____ Period: ___**

Directions: collect as much information as possible about your planet. If more room is needed, attach another piece of paper. Be sure to list units, and keep track of sources.

My is assigned solar system object is _____

Draw the object's symbol:	**Describe how the object got its name:**
Who discovered the object? **When?** **How?** **From where?**	**Distances:** **Order from the sun:** **Distance from the sun in AU:** **in km:** **Distance from the Earth in AU:** **in km:** **Distance from the planet it orbits in AU:** **in km:**
Measurements: **Mass:** **Volume:** **Equatorial Diameter:** **Equatorial Radius:** **Mean Density:** **Gravity:** **If you weighed 100lbs. on Earth, how much would you weigh on your object?**	**Orbit and Rotation:** **(for planet or sun, depending on your object)** **Number of days to orbit:** **Perihelion (how close does it get?):** **Aphelion (how far does it get?):** **Length of one day:** **How many of your planets days (rotations) are there in one of its years (revolutions)?**

Appearance - describe what the object looks like (surface features (mountains, valleys, craters, etc), color, clouds, etc):

Rings - Provide information about the rings, number, composition, color, etc.:
(If no rings: you must find other important info to put here)

Satellites (Moons) – List up to 5 moons. Provide a brief description and data when a moon has significant information. (*If no moons: you must find other important info to put here)*

Composition – describe the core and surface composition:
Core Composition: **Surface Composition:**

Atmosphere – List the major and minor gases: (if no atmosphere, figure out what needs to go here ☺)
Major Gases: **Minor Gases:**

Surface Conditions:
Wind speeds: **Temperature Ranges:** **Surface Pressure:**

Weather – Describe what kind of weather occurs on the object:

Water – What forms of water are found on the object?

Exploration – List all explorations (flybys, orbiters, landers, rovers, etc) to your object. Include satellite name and date:

Habitability – Describe what would happen to a human if they traveled to your planet:

Future Human Travel – What are some problems and solutions to sending humans to your planet:

Creating habitability – What modifications would be needed for humans to live on this planet: *[Be Specific]*

Other information – information you've found that doesn't fit into any other category, but is important and/or awesome

Top 5 facts – list the most interesting facts about your solar system object that you have found throughout your research.

1.

2.

3.

4.

5.

Sources-List websites, books, magazines, and the date of publication.
(you need at least 4)

1.

2.

3.

4.