

NAME: _____ # _____

LOCATION OF PLANET: _____

CREATE YOUR OWN PLANET PROJECT

Learning Target: I can create a planet using the context and information of surrounding planets.

This project will have three parts and **will be worth 4 quiz grades** (1 for research, 2 for writing, and 1 for the model). First, you will conduct research. Next, you will submit a written piece describing your planet. Lastly, you will create a 3-D model of your planet in addition to the two surrounding planets.

You will answer the following questions on the chart provided on the next page:

- What is the name of your planet?
- What is the size of your planet?
- How far are you from the sun? Are you colder or hotter than Earth? Give the average temperature.
- What is the oxygen level on your planet?
- What is the sun's "apparent brightness" on your planet?
- How long is a day on your planet compared to Earth?
- How long is a year on your planet compared to Earth?
- Does your planet have rings? If so, how many?
- Does your planet have Moons? If so, how many?
- Is your planet rocky or gaseous? Is it an inner or outer planet?

Note: You are not limited to including only this information. Think of the other information that we learned about our planets and you may want to include that information as well.

<u>Part 1: Research</u>	Name of Planet Before Yours: _____	Name of Your Planet: _____	Name of Planet After Yours: _____
Size of Planet			
Average Temperature			
Colder or Hotter than Earth			
Oxygen level			
Distance from Sun			
Apparent brightness of the Sun			
Length of a Day (compared to Earth)			
Length of a Year (compared to Earth)			
Does your planet have rings? If so, how many?			
Does your planet have moons? If so, how many?			
Is your planet rocky or gaseous? Inner or outer?			
Additional information			
Additional Information			

Part 2: Essay about your planet. Attached is a flow chart to help organize your writing.

- **MAKE SURE YOUR PLANET FITS WITHIN THE CRITERIA OF SURROUNDING PLANETS. DO NOT MAKE UP FACTS ABOUT YOUR PLANET WITHOUT CONSIDERING ITS CONTEXT.** (Example: A planet closer to the Sun will probably be rocky; a planet farther away will be more gaseous.)

****Please cite your sources in a bibliography and attach to your writing. Directions and examples below:**

Books:

Last Name, First Name. *Title of Book*. Publisher, Publication Date.

****Example:** Henley, Patricia. *The Hummingbird House*. MacMurray, 1999.

If there is more than one author, list all authors with commas in between. Remember last name first and then first name.

****Example:** Gillespie, Paula and Lerner, Neal. *The Allyn and Bacon Guide to Peer Tutoring*. Allyn and Bacon, 2000.

Websites:

Last Name, First Name. *Title of Website*. Name of Publisher (if available), date of website creation (if available), URL. Date of access (write date, month, and then year).

****Example:** Felluga, Dino. *Guide to Literary and Critical Theory*. Purdue U, 28 Nov. 2003, www.cla.purdue.edu/english/theory/. Accessed 10 May 2006.

Article on a Website:

Last Name, First Name. "Title of Article." *Name of Website*, Date article was written, URL. Date of access (write date, month, and then year).

****Example:** "Athlete's Foot - Topic Overview." *WebMD*, 25 Sept. 2014, www.webmd.com/skin-problems-and-treatments/tc/athletes-foot-topic-overview. Accessed 6 July 2016.

Part 3: 3-D model of your planet and its two surrounding planets. You are welcome to use any material you wish to create your model. Some ideas include: Styrofoam balls, clay, string, paint, wooden sticks, popsicle sticks, pipe cleaners, etc. Use your imagination!

Introduction (no more than 3 sentences): Name of planet (and why/how you came up with it), size of planet, inspiration behind your planet's characteristics and properties.

Measurable properties:

Average temperature, temperature compared to Earth, oxygen level, how far is your planet from the sun

Measureable properties:

Apparent brightness of the sun, how long is a day and year on your planet compared to Earth

Physical properties: Does your planet have rings or moons? Is your planet rocky or gaseous? Inner or outer? 1-2 pieces of other information you want to include

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Conclusion: 2 to 3 sentences about what makes your planet unique and why it fits within the two surrounding planets.

Rubric for “Create Your Own Planet” Science Project

Name: _____ # _____

	Outstanding: 4 points	Satisfactory: 3 points	Needs Improvement: 0-2 points
Research	Research is <u>complete and thorough</u> . The research organizer is <u>detailed</u> and was completed by the due date.	Research is <u>complete and provides adequate detail</u> . The research organizer was completed by the due date.	Research is <u>missing or incomplete</u> . The research organizer was <u>not</u> completed by the due date.
Writing	Writing is <u>very detailed, cohesive, and informative</u> . The information presented <u>accurately</u> fits within the criteria of surrounding planets. Writing was submitted by the due date.	Writing is <u>fairly detailed and informative</u> . The information presented fits within the criteria of surrounding planets. Writing was submitted by the due date.	Writing is <u>somewhat detailed and informative</u> . The information presented <u>somewhat fits</u> within the criteria of surrounding planets. Writing was <u>not</u> submitted by the due date.
Bibliography	Bibliography was <u>written correctly</u> and all sources were cited. Bibliography was submitted by the due date.	Bibliography was written with <u>very little mistakes</u> and all sources were cited. Bibliography was submitted by the due date.	Bibliography was <u>not written correctly</u> and/or <u>not all</u> sources were cited. Bibliography was <u>not</u> submitted by the due date.
3-D Model	Model is in 3-D and represents the planets <u>accurately</u> . Model is <u>creative</u> and used a variety of materials. Model was submitted by the due date.	Model is in 3-D and represents the planets <u>fairly accurately</u> . Model used a variety of materials. Model was submitted by the due date.	Model is <u>not in 3-D</u> and/or does <u>not represent the planets accurately</u> . Model <u>did not use</u> a variety of materials. Model was <u>not</u> submitted by the due date.
Comments:			

