

Space Science 8 Planet Poster Project: Terrestrial or Gas Giant? Which planet rules the solar system?

Introduction: Make a poster about a planet of your choice. *The poster should include an original drawing of your planet.* Make sure your poster contains all of the required information listed below for full credit. Poster paper (24" x 18" maximum size) will be provided by Mrs. Duddles.

1. Choose one planet from the following list: Mercury, Venus, Mars, Jupiter, Saturn, Uranus, or Neptune

2. On your Planet Poster, include the following information about your planet:

- A. Name of your planet; an original drawing of your planet
- B. Mythological origin of your planet's name
- C. Order of this planet from the sun (first, second, etc.)
- D. Average distance from the sun in miles, kilometers, and astronomical units (AU)
- E. Period of rotation (length of day)
- F. Period of revolution (length of year)
- G. Average density, g/cm^3 . Compare the average density of your planet with Earth's average density. What percent of Earth's density does your planet have?
- H. Temperature range, high and low (Fahrenheit and Celsius)
- I. Diameter in miles and kilometers. Compare the diameter of your planet with that of Earth. What percent larger or smaller is your planet than Earth?
- J. Compare the gravity of your planet with Earth's gravity. What percent of Earth's gravity does your planet have? If an object weighed 100 pounds on Earth, how much would it weigh on your planet?
- K. List the most common elements present and their physical state (solid, liquid or gas)
- L. Describe the atmosphere (if any) on your planet. List the gases present and their percentages.
- M. How many moons does your planet have? Describe any unique features found on your planet's moons. What are the names of your planet's moons? (If your planet has more than five moons, just name five.)
- N. What probes have been sent or are planned to be sent to your planet? Include names of the missions, when they were sent or are planned to be sent. What information have they found out about your planet?
- O. What does your planet look like? Describe its surface features, such as volcanoes, craters or canyons. Does your planet have rings? Describe the rings.
- P. Based on what you have learned, do you think life could exist on your planet? Think about what conditions a living organism would have to adapt to in order to survive on your planet when answering your question. Remember, life doesn't necessarily mean life as we know it on Earth!

3. You will give a brief presentation (2 – 3 minutes time limit) to the class of your chosen planet.

Resources to help you research:

Nasa.gov – Solar System Exploration (<https://solarsystem.nasa.gov/planets/overview/>)

Nasa.gov – Welcome to the Planets (<https://pds.jpl.nasa.gov/planets/>)

Windows to the Universe.org (<https://www.windows2universe.org/>)

NinePlanets.org (<https://nineplanets.org/>)

Due Date: _____ **Monday, February 11, 2019** _____

Planet Poster Project Grading Rubric

Component	Level				
	5	4	3	2	1
<p>Content Poster contains appropriate items & information (information is appropriate to assigned topic).</p>	Content is accurate & all required information is presented in a logical order.	Content is accurate but some required information is missing and/or not presented in a logical order, but is still generally easy to follow.	Content is accurate but some required information is missing and/or not presented in a logical order, making it difficult to follow.	Content is either questionable or incomplete. Information is not presented in a logical order, making it difficult to follow.	Content is inaccurate. Information is incomplete, inaccurate, or not presented in a logical order, making it difficult to follow.
<p>Presentation/Appearance Poster is clean, neat, & creative. The information is well organized, interesting, accurate, & reflects an understanding of the topic.</p>	Presentation is neat, clean, well-organized, & presented in a creative way. Presentation is colorful & creative. Information is interesting & accurate.	Presentation is mostly neat & clean. Information is organized in a logical manner & shows some degree of creativity. The overall presentation is interesting.	Presentation flows well. Components used in poster enhance understanding of content & used in a relevant manner.	Presentation is unorganized. Components in poster are not used in a relevant manner, and do not enhance understanding of content.	Presentation has no flow. Insufficient information presented. Poster is not neat and clean.
<p>Pictures, Images Artwork Images, pictures, clip art and drawn artwork are colorful and appropriate to the assigned topic. The layout flows well and shows creativity. The overall result is pleasing to the eye.</p>	Images, pictures, clip art and drawn artwork are colorful, and appropriate to the topic. Layout flows well, shows creativity, and is pleasing to the eye.	Images, pictures, and clip art and drawn artwork are mostly colorful and appropriate. Layout may show some degree of creativity but is not organized logically and/or is cluttered.	Most images and/or artwork is/are colorful and appropriate. The layout shows little creativity and/or is not organized logically or cluttered.	Images are inappropriate and artwork shows little, if any, creativity. The layout is messy, disorganized or cluttered.	No images or artwork included.
<p>Mechanics Spelling, grammar, & punctuation in any text on the poster is accurate.</p>	No spelling, grammar, or punctuation errors in the text. Text is written in the student's own words.	A few (2-3) errors in spelling, grammar or punctuation. Most text is in student's own words.	No more than 5 spelling, grammar or punctuation errors. Several instances where the text is not in student's own words.	No more than 7 spelling, grammar or punctuation errors. Most of text is not in student's own words and/or no text included.	More than 7 spelling, grammar or punctuation errors. Text is copied or not included.
<p>Overall Presentation The poster fulfills all requirements of the assignment and shows the student's full potential.</p>	The poster fulfills all requirements of the assignment and represents the student's full potential.	The poster fulfills all but one of the requirements of the assignment and shows that the student put forth an honest effort to complete the assignment.	Poster shows minimum work, effort, and thought.	Poster shows lack of work, effort, and thought.	Poster demonstrates indifference for the topic and project.

Comments:

Name: _____ **Score:** _____ /50 points