

Name(s): _____ Pd. _____

Planetary Amusement Park Corporation Proposal

The Planetary Amusement Park Corporation is now accepting proposals for its newest endeavor- a 7.5 million dollar amusement park! The Planetary Amusement Park Corporation now owns and operates EarthWorld, fully equipped with Tectonic Terror Tower where park guests get to experience all of the Earth's array of tectonic impacts- volcanoes, earthquakes, etc. in one two minute thrill ride. But, the corporation is ready to expand its theme for a new park that represents one of the planets from our very own solar system.

The next few days you and your partner will choose a planet from our solar system. As a team, you will write and present your own proposal for an amusement park based on your team's chosen planet. You will present your proposal in drawings, writings, and models which you will present to the corporation who will hear your proposal.

The information below is for your notes and information you'll find on your planet from your science folder, books, library and the Internet. After you and your partner have filled out this worksheet you will be equipped with all of the background information that you need to begin creating your amusement park proposal. Please use this information in addition to your "Planetary Characteristics" chart.

Your Final Product includes:

- Your completed research (each group member must submit their project research)
- 1-page summary describing your amusement park proposal that takes into account your planet's unique characteristics
- Model of your Planetary Amusement Park proposal (may be 2-D or 3-D) that includes labels/names of each section/ride of your park

Topics for Research:

1. **The Planet's Name:** What does its name mean? Many planets were named after mythological gods.

2. **Position in the Solar System:** Where is your planet located (for example, Mars in the fourth planet from the Sun)? How far from the Sun does it orbit? Is its orbit unusual?

3. **Rotation on its Axis:** How long does it take for your planet to rotate on its own axis? (This is one day on your planet.)

4. **Size:** How big is your planet? How does it rate in terms of the other planets in terms of size (is it the biggest, the smallest)? What is your planet's mass?

5. **Orbit:** How long (days) does it take for your planet to orbit the Sun?
6. **Atmosphere:** What is the composition of the atmosphere of your planet? Is it a thick or a thin atmosphere?

7. **Temperature:** What is the temperature range your planet? How does this compare to the temperature on Earth?

8. **Your Planet appearance:** What type of planet is it (is it rocky or a gas giant)? What is its internal composition? What does your planet look like?

9. **Moons:** If there are moons orbiting your planet, describe them and when they were discovered.

10. **Rings:** If there are rings orbiting your planet, describe them and when they were discovered.

11. **How Would a Human Being Fare on Your Planet?:** On your planet, would a person choke in the atmosphere, be squashed by the extreme gravity, float with ease, freeze, burn up, or something else?

12. **Something Special:** Is there anything special about your planet? This can often be the best part of the report, taking you off on interesting topics. For example, are there 100-year- long storms on your planet? Are there giant volcanoes? Does your planet have a very tilted axis (giving it extreme seasons)? Have spacecraft visited your planet? If so, what have they discovered? Is your planet in an orbital resonance with another body?

Planetary Amusement Park Proposal - Rubric

6th Grade Science - Planetary Amusement Park Proposal PBL

Student Names: _____ Date: _____ Per: _____

Planet: _____ Amusement Park Name: _____

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| Presentation | | | | |
| Presentation Skills | All group members spoke clearly with a good volume so that all audience members could hear. Maintained good eye contact with the audience while speaking. | Most group members spoke clearly with a good volume so that all audience members could hear. Maintained good eye contact with the audience while speaking. | Majority of group members were hard to hear from all parts of the room. Good eye contact was not maintained by all group members while speaking. | All group members were hard to hear during the presentation and were unable to maintain eye contact with the audience while speaking. |
| Collaboration with Peers | Evidence that all group members have an equal part in the research, presentation and creating of the model of the amusement park. | Evidence that all group members contributed to the research and creating of the model of the amusement park but did not equally contribute to the presentation. | Evidence that all group members presented but did not equally contribute to the research and the creating of the model of the amusement park. | Evidence that there was not equal contribution from all group members in the research, presentation, and creating of the model of the amusement park. |
| Planet's Unique Characteristics | All 12 of the research topics are highlighted in the proposal and/or the presentation. | Most of the 12 research topics are highlighted in the proposal and/or the presentation. | Some of the 12 research topics are highlighted in the proposal and/or the presentation. | Limited discussion of the 12 research topics are highlighted in the proposal and/or the presentation. |
| Model | The model is neat, colorful and contains labels of all the sections/rides within the amusement park. | The model is somewhat neat, colorful and contains labels of all the sections/rides within the amusement park. | The model is neat, colorful but does not contain labels of all the sections/rides within the amusement park. | Very little effort put into the construction of the 2-D or 3-D model. No labels are found. |

Planetary Amusement Park Proposal - Rubric

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|--------------------------------|--|---|---|---|
| 1-page Summary/Proposal | Detailed description of the planet's unique characteristics found in the 12 research questions and what the amusement park will contain. | Somewhat detailed description of the planet's unique characteristics and what the amusement park will contain. | Minimal details given about the planet's unique characteristics and what the amusement park will contain. | Does not describe either the planet's unique characteristics or what the amusement park will contain. |
| How Would Humans Fare? | Discussed multiple modifications humans would need on this planet in order to enjoy the amusement park in comparison to Earth. | Discussed a few modifications humans would need on this planet in order to enjoy the amusement park in comparison to Earth. | Limited discussion of human modifications needed for this planet's amusement park. | No mention of human modifications needed for this planet's amusement park. |
| Questions | Was able to accurately respond to all peer questions during presentation. | Was able to accurately respond to most of peer questions during presentation. | Was able to accurately respond to some peer questions during presentation. | Wasn't able to accurately respond to most peer questions during presentation. |
| Total = _____ /28 _____ % | | | | |