

WELCOME TO THE FIRST INTERPLANETARY CONFERENCE!

OUTLINE: Each group will pick a world. Then on May 8 each group will present their posters about their world to the rest of the class during our "interplanetary conference."

Each group will submit a 6-10 page essay (with figures extra) describing their project. Be sure to cite ALL your sources clearly in the text and references section of the essay. Copying uncited text into your essay will result in an automatic mark of zero on the whole project. The essays are due at the time of the presentation. Please note which essay you have written about at the start of the essay.

POSTERS:

- The poster should be a single "Presentation Board" or computer presentation.
- The posters can be set up on tables for display and so an object can be placed in front of the poster if desired.
- Make sure your name is on your poster/presentation.
- Each person will have approximately 5 minutes to briefly introduce their planet poster.

GRADED POINTS:

(IMPORTANT: The following is just a simple outline of some basic questions to get full marks please include extra information not asked for here. Describe your reasoning fully *do not just state an answer* -- describe why you came to that conclusion!)

1. **ASTROPHYSICS:** Where is your planet located in this solar system? What is the climate like on the planet? How long is a year? How long is a day? What is the temperature like (high and low). Are there tides? How is the planet protected from asteroids and comets? (Backup all your statements with scientific arguments) (*if applicable: What is the solar system like around your planet? What is the Star like?*)
2. **GEOPHYSICS:** Describe the modern geophysics on your planet. Plate tectonics? Hot core? Volcanos? Earthquakes? Deep thermal vents? Hot springs? How is the temperature kept stable? What prevents massive impacts? How long will life be able to live on your planet? How long will your star survive? Are there magnetic fields to block the solar wind? (Backup all your statements with scientific arguments)
3. **NATURAL HISTORY:** What is the history of your planet? How did it form? What were the major geological events that shaped your planet? How did the atmosphere change? Is there Ozone? Is life protected from the UV radiation? How has life evolved as a result? What is the current temperature? (Backup all your statements with scientific arguments)
4. **ORGANIC CHEMISTRY:** What is the chemistry that life has used to adapt on your planet? What is the solvent life uses? What was the original chemical equation that it could use? What does it use today? Where is life most commonly found? Is there a chemical balance to life on your planet? (Backup all your statements with scientific arguments)
5. **ORIGIN OF LIFE:** How did life start on your planet? Where did it start? Was all life ever wiped-out -- describe this. Describe how it started all over again. Will all life ever be wiped-out again? Describe the "common ancestor" on your world. How does life reproduce and pass down genetic information? How does it evolve? What is the tree of Life on your planet? (Backup all your statements with scientific arguments)
6. **BIOLOGY:** What are the modern flora and fauna like on your planet? Draw some examples of "life forms" on your planet. How have they adapted to life on your planet? What is the "food-chain" like on your planet? What species is dominant on your planet? How do all the living things survive together? What is the Tree of life like on Your planet? (Backup all your statements with scientific arguments)
7. **POLITICAL SCIENCE:** Describe the Imaginary Civilization on your planet. What is it like? How is it run? What is the population of your planet? What are the major dangers to your Civilization? How long will it continue? How does it live with its planet? Will it ever completely leave its home world? (Backup all your statements with scientific arguments)