

# Mr. Miller's Astronomy Class

## Project #04 = Solar System

### Part 1 for a Planet = Report (50 Pts.)

- Name and Discovery of Planet (5 pts.)
  - What is the name and why was it named that specific name?
  - When was the planet discovered and by who?
- Position in the Solar System (5 pts.)
  - What is the average distance from the Sun (in AU's)?
  - What is the closest distance to the sun (in AU's)?
  - What is the furthest distance to the sun (in AU's)?
- Moons and Rings (5 pts.)
  - How many moons and rings does the planet have?
    - Give brief explanation of rings and any 'important' moons
- Rotation and Revolution (5 pts.)
  - How long does it take to rotate around its axis (day)?
  - How long does it take to revolve around the sun (year)?
- Size (5 pts.)
  - What is the mass of the planet (in earth masses)?
  - How big is the planet (radius in kilometers)?
- Gravity (5 pts.)
  - What is the force of gravity on the surface of the planet?
  - What would a 150 lb. person on Earth weigh on the planet?
- Temperature (5 pts.)
  - What is the range of temperatures on the planet (in °C)?
- Structure and Atmosphere (10 pts.)
  - What is the internal structure of the planet and atmosphere look like? (5 pts. each)
    - List all layers and their general properties
- Other Interesting Information (5 pts.)
  - Every planet has at least 2-3 interesting things that are unique to the planet. Make sure to describe at least the major ones.

### Part 2 for a Planet = Presentation (50 Pts.)

- Visual Aid (35 pts.)
  - Name of Planet (5 pts.)
  - Picture of Planet (10 pts.)
    - Must be majority of visual aid and must be in color
  - At least 4 major pieces of information about planet (20 pts.)
    - Remember this is a visual aid designed to get a person just walking by the poster to want to learn more about your phenomenal planet
- Delivery (15 pts.)
  - Knowledge of Content (10 pts.)
    - Obviously knows the information about planet
    - Only uses index card to stay on track, not to read word for word
  - Speaking Skill (5 pts.)
    - Able to speak clearly and look at audience while speaking

# Mr. Miller's Astronomy Class

## Project #04 = Solar System

### Formatting for All Reports

- Cover Page
  - Photo
    - Photo of astronomical body centered on the cover page and properly cited
  - Title and author
    - Name of astronomical body on top of cover page
    - “by name of author” at bottom of cover page
- Citations
  - Use at least 4 credible sources
- Works Cited Page
  - Proper citation format
  - In order of use within document
- Proper Formatting
  - Times New Roman or Calibri font
  - 10 point font size
  - Single spaced
  - 1-inch margins
  - 2-3 pages in length
- Spelling, Grammar, and Punctuation
  - Make sure to use correct

**Any formatting issues will subtract points from total score**

# Mr. Miller's Astronomy Class

## Project #04 = Solar System

### Part 1 for a Non-Planet = Report (50 Pts.)

- Name of Object/Objects (5 pts.)
  - What is/are the name/names of your object/objects?
- Position in the Solar System (5 pts.)
  - Where do you find your object/objects in the solar system?
- Rotation and Revolution (5 pts.)
  - Does/Do your object/objects have a typical rotation?
  - Does/Do your object/objects have a typical revolution?
- Size (5 pts.)
  - What is/are the mass/masses of your object/objects?
  - What is/are the size/sizes of your object/objects?
- Formation (10 pts.)
  - Describe in detail how your object/objects formed in the solar system.
- Structure (10 pts.)
  - Describe in detail any structural information pertaining to your object/objects.
- Other Interesting Information (10 pts.)
  - Describe in detail any interesting information pertaining to your object/objects.

### Part 2 for a Planet = Presentation (50 Pts.)

- Visual Aid (35 pts.)
  - Name of Object/Objects (5 pts.)
  - Picture of Object/Objects (10 pts.)
    - Must be majority of visual aid and must be in color
  - At least 4 major pieces of information about object/objects (20 pts.)
    - Remember this is a visual aid designed to get a person just walking by the poster to want to learn more about your outstanding object/objects
- Delivery (15 pts.)
  - Knowledge of Content (10 pts.)
    - Obviously knows the information about object/objects
    - Only uses index card to stay on track, not to read word for word
  - Speaking Skill (5 pts.)
    - Able to speak clearly and look at audience while speaking