Planetary Poster

You are to design a poster showing the features of your planet. The poster must have the following features, must be clear to read, and should be attractive. The goal of this project is to demonstrate an understanding of how various characteristics affect the features of a planet.

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| Feature | 4 | 2 |
| Name | The name of the planet and the catalogue number of the star (HR 16\_) is clearly indicated and easy to read. | The planet is unnamed and/or the star is not present. |
| Age | Whether the planet is young and just formed, medium aged, or old and at the end of its life span is clearly indicated. | The age of the planet is not indicated. |
| Location | The location of the planet relative to the Star is clearly stated. | It is unclear whether the planet is located close to or far from the star. |
| Planet Composition  | What the planet itself is made of is clearly indicated as primarily light elements, heavy elements, or a mix of the two.  | What the planet is made of is not clearly indicated. |
| Atmosphere Composition | The type of atmosphere is clearly indicated as none, greenhouse, or neutral. The typical gases found in this type of atmosphere are clearly indicated. | The type of atmosphere is not clearly indicated. |
| Planetary interior | What the interior of the planet is like is clearly indicated as solid or liquid, as well as the cause for its current state. | The interior state is not indicated, or the reason for it being solid or liquid is not indicated. |
| Magnetic Field | Whether the planet has a magnetic field or not is clearly indicated, as is the cause for the presence or absence of such a field. | A magnetic field is not mentioned, or it is not explained. |
| Similar Planet | A comparison is made with a similar planet from our Solar System, stating how they are similar. | A comparison is not made. |
| Image | A picture of the planet is provided that is reasonable based on descriptions from the text. | There is no picture, or it is not based on the text. |
| Description | There is a short description summarizing important information about the planet. | The description is missing or largely incomplete. |

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| When drawing your planet, you may wish to use certain colors. Specific colors require specific chemical elements in the atmosphere and/or crust. You may consult the chart below to accurately determine what elements are necessary to design your planet. |
| Red | Iron in the crust and oxygen in the atmosphere to react to make a reddish iron oxide. |
| Blue | Liquid water (warm planet) or liquid methane (very cold planet.) |
| Green | Copper in the crust and oxygen in the atmosphere to make a greenish copper oxide, or photosynthetic plants. |
| Orange | Hydrogen sulfide in the atmosphere: this is toxic to most life. |
| Black | Iron and/or nickel in the crust. |
| Yellow | Sulfur or potassium in the crust. |
| White | Clouds of water or hydrogen in the atmosphere, or frozen hydrogen, carbon dioxide or water on the crust. |

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| When drawing your planet, you may wish to consider other features, such as: |
| Rotational period | Planets with long days tend to have very extreme temperature ranges, with the daylight side getting very hot and the nighttime side getting cold. This is not good for life. Planets with a faster day tend to have narrower ranges of temperature, since any given part of the planet does not have much time to heat or cool. This is better for life. |
| Moons and satellites | Planets can have moons. Larger planets tend to have more moons. |
| Axial tilt | Planets that have a tilted axis can have seasons. |