PAGES REQUIRED CONTENT **Astronomy Booklet Guidelines & Point Rubric**

**1st** (front) = **Creative Cover** with your name

(5 points)

**2nd** = **Astronomical Hierarchy** from **small to large**- *moon, planet, star, solar system, galaxy, universe*

(15 points) (minimum of 2 drawings w/ colors)

**3rd**= **Big Bang Theory**- Write a two-sentence description. Include your experience with balloon lab.

(15 points) List two pieces of *evidence* for big bang.

**4th** & **5th** = **Earth Motions**- (*2 page drawing)*

(30 points) -Earth’s tilted axis & equator - equinoxes & solstices dates ***Mar 20****,* ***June 22****,* ***Sept 22****, &* ***Dec 22***)

 -Months & 4 seasons labeled - the Sun & directional arrows of Earth’s orbit

**6th** = **Planetary Motion**- **Kepler’s 3 Laws** - How did Kepler contribute to theory on planetary motions?

(15 points) Come up with a saying, rap or rhyme to remember these vocabulary words: ***Barycenter****,* ***Nutation****,* ***Rotation****, &* ***Revolution.*** How will you remember each term?

**7th** = **Differential Heating-** Write the definition and explain using one example.

(5 points)

**8th** (back) = **Solar radiation**- Explain how it is created through **Nuclear Fusion**

(15 points) Why is **Photosynthesis** important? What does it do?

 What does the **atmosphere & magnetic field** protect us from?

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