**Astronomy Booklet Guidelines**

PAGES REQUIRED CONTENT

**1st** (front) = **Creative Cover** with your name (*minimum 3 colors*)

**2nd** = **Hierarchy** of cosmic objects from **small to large**- *meteoroid,* ***moon****, planet,* ***star****, solar system,* ***galaxy****, universe*

 (from notes & cosmic size activity; minimum of 2 drawings w/ colors)

**3rd**= **Description** (*or drawing*) of formation of the solar system- **nebular hypothesis** (*p. 647*)

 (include key word “**GRAVITY**” & how it makes this happen)

**4th** & **5th** = **Earth Motions**- (*2 page drawing, minimum 3 colors*)

 -Earth’s tilted axis & equator - equinoxes & solstices (*dates* ***Mar 21****,* ***June 21****,* ***Sept 21****, &* ***Dec 21***)

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

**6th** = **Planetary Motion**- **Kepler’s 3 Laws** (*list & explain*, p. 618)

 Definitions for ***Barycenter****,* ***Nutation****,* ***Rotation****, &* ***Revolution***. (*from notes*)

**7th** = **The Universe**- Explain **universe expansion** & **red shift**. (*p. 719*)

 Draw a **diagram** showing where we are in the **Milky Way Galaxy**. (*p. 716, fig. 17*)

**8th** (back) = **Solar radiation**- Explain how it is created through **Nuclear Fusion** (*p. 689*)

 Explain how it warms the earth (*seasons & latitudinal differences, p. 589*)

 Explain how it makes life possible on Earth- **photosynthesis** (*p. 433*)