Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Astronomy Book

**Purpose**

The purpose of this lab is to create a book showing how all of the parts of the universe are connected. Your book may be any shape or size that you want (between 6”x6” and 12”x12”). Be creative and thorough![[1]](#endnote-2)

**Procedure**

**Materials**

1. Notes, science book and previous class assignments
2. Construction paper
3. Colored pens/pencils
4. Additional artistic supplies you choose!

**Sequence of Steps**

In order to receive full credit, astronomy books should include the following:

1. Front cover
   1. Appropriate title
   2. Picture(s)
   3. Author’s name
2. Table of contents
   1. List all of the main concepts belowand give the page number where it can be found in your astronomy book.
3. Main Concepts
   1. For each main concept listed below, clearly address each of the “Components to Include in your Book”.
4. Back Cover
   1. Should match front cover in shape, color and size.

|  |  |
| --- | --- |
| **Main Concept** | **Components to Include in your Book** |
| **Universe** | Definition  Picture |
| **Galaxies** | Definition  Table or Venn diagram comparing and contrasting the 3 types of galaxies.  Milky Way (Size, number of stars, picture with location of our solar system) |
| **Solar System** | Definition  Steps of solar system formation (Pictures, explanations of pictures). |
| **Planets** | Table comparing and contrasting the inner and outer planets, including the following information:  Location  Types of elements that make up the planets and why  Large or small gravity and why  Many moons, few, or no moons and why  Rings or no rings and why  General pictures |
| **Asteroid Belt** | Explanation of why the asteroid belt is located where it is.  Explanation of what type of planet the asteroid belt would be if it ever came together.  Picture |
| **Earth** | Explanation of why the early earth was hit with so many more meteors than the current earth.  Explanation of why the earth is the only planet in the solar system that supports life.  Picture |
| **Life Cycle of Stars** | Picture and explanation of the stages a star goes through in its life cycle.  Picture of the H-R Diagram. Label the three axes and location of each type of star. |
| **Parallax** | Definition  Picture illustrating how the Parallax works. |
| **Agricultural Implication** | Identify major natural resources used in agriculture.  Explanation of why the earth is the only planet currently suitable for agriculture production.  Explanation of how animal breeding cycles (when animals reproduce) are impacted by the rotation of the earth. |

**Astronomy Book Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total Points Possible: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Notes: Points I received: \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_\_**

1. Looper, Jim (2008). *Astronomy Book, Lab*. Sheldon High School. [↑](#endnote-ref-2)