

ASTRONOMY UNIT BIG BOOK PAGE
(FREE FORM MAP)



- 5 pts. each of the topic (15 total = 75 pts.) - You must show your understanding of the topic by briefly explaining the topic with words or diagrams.
- 2 pts. each to include at least 10 drawings representing your topics. (20 pts)
- 5 pts. - Neatness and color

Title should be, **Astronomy Unit**

1. What is a Constellation, including distances of stars from Earth (They appear to be the same, are they?)
2. Meteor vs. Comet
3. Geocentric vs Heliocentric models
4. Rotation and Revolution/Orbit - including direction earth rotates and what one rotation is equal to on Earth and direction Earth revolves around Sun and what one revolution is equal to on Earth
5. Explain why some areas of the world have Seasons - Define axis, including degree of Earth's tilt on its axis
6. Solstices - include dates for Northern Hemisphere and amount of light/angle of light
7. Equinoxes - include dates for Northern Hemisphere and amount of light
8. Explain why it remains cold at the poles and warm around the equator on Earth
9. Gravity – include relationship to mass and distance & power of our Sun
10. Moon Phases – names and positions, what causes phases
11. Direction of Moon's orbit and how gravity and inertia keep it in orbit (this goes for the Earth as well)
12. Solar eclipse – include moon phase name and positions of the Earth, Sun, & moon
13. Lunar eclipse - include moon phase name and positions of the Earth, Sun, & moon
14. Tides – Spring and Neap including the positions of the Sun, Earth, & Moon and the effects on tides in these positions
15. Galaxies - Types and how they compare to a “Solar System” and Scientific Notation to describe very large distances