

ASTRONOMY TEST I MAKE UP

NAME _____ STUDENT NUMBER _____

Answer all questions in some detail. I want to know how much you know about the material.

1. Explain the celestial sphere in detail. Include coordinate systems, zodiac, zenith, ecliptic, and meridian.
2. Explain the seasons of the Earth in detail. Also include an explanation for solar/sidereal day and solar/sidereal month.
3. Draw a picture showing the configuration of the Moon at different phases. Also, label when the Moon is waxing or waning and gibbous or crescent.
4. List Kepler's three laws of planetary motion.
5. State Newton's three laws of motion and his law of universal gravitation.
6. Explain how absorption lines can appear in a spectrum using quantum theory ideas.