

Test 2:

Understand Sir Isaac Newton's importance to astronomy.

Know Newton's Three Laws of Motion.

Be able to explain the Law of Gravity.

Be familiar with the structure, formation and components of our solar system.

Be able to describe the precession of Earth's axis.

Know the differences between the Terrestrial vs. Jovian planets.

Be able to name the solar system planets; largest moon in the solar system; largest moon proportional to its planet; most dense and least dense planets; which planets have rings; relative sizes of planets; atmospheric composition.

Know what and where the ecliptic plane is.

Be able to explain the Roche limit.

Be able to describe and apply the Titius-Bode Law.

Understand the Greenhouse effect.

Know Earth's escape velocity.

Be able to explain the "light fingerprint" of each different element.

Know the characteristics and parameters of different types of light and how they compare to each other, such as wavelengths, frequencies, visible color spectrum, overall electromagnetic spectrum.

Know how the 3 different temperature scales (Fahrenheit, Celsius and Kelvin) relate to each other, and know the freezing and boiling points on each of them.

Know what happens when an atom absorbs or emits a photon.

Know what a quantum leap is.

Know the equation that represents Planck's Hypothesis.

Know what determines an atom's atomic number.

Know what the strong nuclear force is.