

Astro 100 MW Exam I Study Guide

Topics (not exhaustive, but covers the most important material)

Acceleration

Asteroids

Atomic Number

Atoms

Brahe

Chemical Reactions, Nuclear Reactions

Comets

Comparative Planetology

Copernicus

Densities of Planets and Sun

Distance, Velocity, Time

Distances of Planets from Sun (in AU)

Doppler Effect and Formula (and how to apply it)

Dwarf Planets

Egyptian and Julian Calendars

Einstein, matter and energy equivalence

Electrons

Energy, forms and conservation

Equinoxes and Solstices

Features of Planets

Fluorescence

Frequency, Wavelength, and Speed of Light (terms and relationship)

Fundamental Particles

Galileo

Geocentric Model

Greenhouse Effect

Jovian Planets, Terrestrial Planets

Kepler, and his Laws

Kuiper Belt Objects

Light

Mass, Weight

Metric Unit Prefixes (centi, kilo, mega, etc.)

Molecules

Momentum

Months

Moon's Orbit Around Earth

Newton, and his Laws of Motion

Newtons Law of Gravity Formula (and how to apply it)

Number of Galaxies

Number of Stars in Visible Universe, in a Galaxy

Oort Cloud Objects
Orbit of a Planet around Sun (ecliptic plane, perihelion, aphelion)
Order of Magnitude Calculations
Parsec, AU, Light•year
Phases of Matter (common: solid, liquid, gas, and plasma)
Phases of Moon
Photons
Power
Protons, Neutrons
Ptolemaic Model
Quarks
Radius of Planets and Sun (in R_{earth})
Seasons on Earth
Spectra
Speed of Light
Strong Force, Electric Force, roles in binding atoms
Synchronous Rotation
Temperatures of Planets and Sun
Tidal Force, Tides
Wavelength Rule for Observations