Exam 1 Review Guide

Science vs. Pseudoscience Scale of the Universe Motions in the Sky (sun, planets, stars, our moon and its phases) Over one day Over one month/a few months Retrograde motion Seasons & Solar Heating **Physics** Conservation of Energy Conservation of Angular Momentum Kepler's Laws Newton's Laws Gravity Radiation: Emission Absorption Thermal / Blackbody Wavelength, Frequency, Energy Spectroscopy Telescopes Angular Resolution Light Collecting Area Effects of Atmosphere on Observations Planetary Formation Nebular Theory (in detail, including how it explains all the observations, as well as the exceptions) Planetary Processes: Comparative Planetology Differentiation Heating & Cooling Plate Tectonics / Tectonics in general Volcanism Magnetic fields Erosion Carbon Cycle Greenhouse Effect Weather