

Chapter 27.1 and 2.1 Formation and Interior of the Earth Test Study Guide: Earth Science, Mr. Traeger

Section	Major Questions to be asked and/or tasked to be measured	Where do I find the information?
Textbook Section 27.1: Solar System Formation	<ul style="list-style-type: none"> • How does the autumnal equinox give evidence of planetary changes set in motion 4.5 billion years ago? What is the autumnal equinox and what are its effects? • How was the solar system formed? • How was the Earth formed? • How do we know how old the Earth is? • What is the nebular hypothesis? • Why did Earth become a spheroid? • Why did Earth become layered? Explain differentiation of layers both chemically and physically. 	<ul style="list-style-type: none"> • Textbook section 27.1 • Class notes on equinox • NOVA Origins: Earth is Born video and questions • Online Homework for this section. Check your homework logs.
Section 2.1: Interior of the Earth	<ul style="list-style-type: none"> • How big is Earth? How did Eratosthenes calculate the circumference and radius of Earth? • What are the different physical layers of Earth's interior and how are they differentiated? Ex. Lithosphere (rigid behavior of material) vs. Asthenosphere (plastic flowing behavior of material) • What are the different chemical layers of Earth's interior and how are they differentiated? In other words, what is the basic chemistry of each layer? • What are the characteristics of these layers? • Where does Earth's heat and magnetic field come from? What is a magnetic field? 	<ul style="list-style-type: none"> • Textbook Section 2.1 • NOVA <i>Origins: Earth is Born</i> video and questions. • Eratosthenes Lab • <i>The Interior of the Earth</i> Handout • Online Homework for this section (Check your homework log) • <i>Layered Earth</i> Program in class • <i>Seismic Waves</i> program in class • Earth Pie activity we did in class • NOVA Science Now: <i>Journey through the Center of the Earth</i> video

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	<ul style="list-style-type: none"><li data-bbox="662 260 1003 344">• How do we know what is inside of the Earth if we cannot go there?<li data-bbox="662 350 1003 617">• What would happen to Neil DeGrasse Tyson if he dropped down a well to the center of the Earth? We all know this is fictitious, but what would happen if it could happen? What would happen to his speed?	