



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



Semester 1

Department: Science

Course: Honors Geology

Instructor(s): Piper

*The Homewood-Flossmoor High School Course Scope & Sequence provides parents and students with a semester-long overview of each class that we offer. **An instructor may alter a course's scope & sequence as needed.** Students are responsible for keeping track of due dates and other pertinent course information in their H-F Student Planners. Parents, please contact your child's teacher by telephone or e-mail to clarify any questions you may have about the scope & sequence of a particular course.*

WEEK	STANDARDS	INSTRUCTIONAL CONTENT	ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS	MAJOR ASSESSMENTS	OTHER
WEEK #1 8/15-8/19 No class 8/15, 8/16	S.1.a.1 S.1.b.1 S.1.b.2 S.111.c.2	Introduction to Geology	Branches of Earth Science Scientific Method Uniformitarianism Law of Superposition Unconformities	Research: Subdisciplines of Geology	Homefun: Chapter 1 Questions 1-8
WEEK #2 8/22-8/26	S.1.a.1 S.1.b.1 S.1.b.2 S.111.c.2	Relative Age Absolute Age Fossils	Methods of Absolute Dating Useful Elements Fossil Type Index Fossils	Radiometric Dating Lab Index Fossil Lab	Homefun: Chapter 18 Questions 1-20  Video: Evolution through Time Sci-54
WEEK #3 8/29-9/2 PLC 9/2	S.1.b.1 S.1.d.1 S.1.b.2	Geologic Time	Origin of Earth Divisions of Geologic Time	Geologic Time Research Project Unit Exam	Homefun: Chapter 19 Questions 1-5
WEEK #4	S.1.b.1	Earth Chemistry	Atomic Structure	Atomic Structure	Homefun: Chapter



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9/5-9/9 No class 9/5	S.1.b.2		Atomic Theory Magic Square Activity Isotopes	Convection Lab	2 Questions 1-20
WEEK #5 9/12 -9/16	S.1.b.1 S.1.b.2	Chemical Bonds	Ionic and Covalent Bonding Van Der Waals Distribution of Elements in Nature Electricity and the Atom	Burning Salt Lab	
WEEK #6 9/19-9/23 PLC 9/23	S.1.b.1 S.1.b.2	Minerals	Mohs Scale Specific Gravity Crystal and Crystal Structure Mineral Properties	Mineral Use Research Mineral Identification Lab  Unit Exam	
WEEK #7 9/26-9/30	S.1.b.1 S.1.b.2	Rocks and Rock Cycle	Minerals to Rocks The Rock Cycle Three Families of Rocks	Rock Cycle Internet Tutorial Rock Families Rock Cycle Formation Lab Rock Cycle Quiz	Homefun: Chapter 3 Questions 2-6, 8- 10, 12,13, 16, 18
WEEK #8 10/3 ó 10/7 PLC 10/7	S.1.b.1 S.1.b.2	Types of Rocks	Igneous Rock Classification, Texture and Intrusion Sedimentary Rock Formation, Texture, Composition and Features	Rock Id Quiz	Homefun: Chapter 6 Questions 1-,3-5, 8-9, 13-15,18
WEEK #9	S.1.b.1	Types of Rocks	Metamorphic Types	Unit Exam	Homefun Chapter



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10/10-10/14 No Class 10/10	S.1.b.2				7 Questions 1,4-6, 8, 11, 12
WEEK #10 10/17-10/21 End of 1 <sup>st</sup> Quarter	S.1.b.1 S.1.b.2	Earth Structure and Plate Tectonics	The Earth's Interior Lithosphere, Atmosphere Crust, Mantel, Core Seismic Waves (P and S) Shadow Zones		Homefun: Chapter 15 Questions 1-20
WEEK #11 10/24 ó 10/28 PLC 10/28	S.1.b.1 S.1.b.2	Map and Globe Terms	Latitude, Longitude Topography	Topographic Map Interpretation Construction of 3D Topographic Map	
WEEK #12 10/31 ó 11/4 PLC 11/4	S.1.b.1 S.1.b.2	Plate Boundaries and Mountain Building Process	Convergent, Divergent, Transform Fault Rock Deformation Folding and Faulting	Squeezebox Lab Unit 4 Exam	
WEEK #13 11/7-11/11	S.1.b.1 S.1.b.2	Theory of Continental Drift	Evidence of Continental Drift, Paleomagnetism, Iceland		Homefun: Chapter 17 Questions 1,3-



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No class 11/11			Splitting, Ocean Floor Movement Seafloor Spreading		7,10-12, 14-16, 21-23
WEEK #14 11/14- 11/18 PLC 11/18	S.1.b.1 S.1.b.2	Earthquakes	Elastic Rebound Theory Seismic Waves Locating and Epicenter Earthquake records Richter Scale	Richter Scale Lab Epicenter Lab	
WEEK #15 11/21- 11/25 No class 11/24, 11/25	S.1.b.1 S.1.b.2	Earthquakes and Volcanoes	Tsunamis Earthquake History Volcanoes and Volcanic Features	Volcano Activity	Homefun: Chapter 4 Questions 1-9, 12,13, 17, 20-23
WEEK #16 11/28 ó 12/2	S.1.b.1 S.1.b.2	Volcanoes	Classification of Volcanoes Composition of Lava and Features Pyroclastics	Unit Exam	
WEEK #17 12/5-12/9 PLC 12/9	S.1.b.1 S.1.b.2	Weathering, Erosion and Formation of Soil	Mechanical and Chemical weathering Soils, Soil Type, Soil Profile	Soil Survey	Homefun: Chapter 5 Questions 2, 3,6, 8, 9, 12, 13, 14
WEEK	S.1.b.1	River and Glacier	River Systems	Unit Exam	Homefun: Chapter



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#18 12/12- 12/16	S.1.b.2	Formation	Glaciers Glacier Deposition and Features		9 Questions 1-9, 14, 16, 18. Chapter 11 Questions 1-4 6,7, 9,10,17,18
WEEK #19 1/3-1/6					
WEEK #20 Finals 1/9 6 1/13 1/12 Marking Day 1/13 Inst Day					