

Earth Science Curriculum Map

*note--assessments and product activities may change, be retired, resurrected, or continue depending on student progress and needs

	August	September	October	November	December	January	February	March	April	May/June
Essential Questions	What is Scientific Method?	How do you find locations on the earth?	What are rocks and Minerals?	What processes shape the earth? - part 1 (will go into January to finals)		What is the reason for the seasons? What makes up the air above us? What is Pollution and how does it affect the atmosphere and us?	How does water affect the climate and weather?		What are the processes that shape the earth? - Part 2. What happened before we got here?	What's out there? Are we alone?
Content in terms of essential concepts and topics	Science Measurements and Scientific Method	Models of the Earth - Maps	Minerals, Igneous and metamorphic rocks	Plate Tectonics and Crustal Deformation	Earthquake, Volcanoes	The Earth in Space, Earth's Atmosphere, Water in the Atmosphere, Weather			Weathering and Soil Formation; Sedimentary Rocks and Paleontology	Universal Laws of the Solar System and Astronomy
Standards Skills i.e., processes and skills emphasized Indiana Academic Standards plus MCSC skills	<i>Istep English</i> : 10.6 a&b, 10.11,10.7,10.14 <i>Istep Math</i> 10.1-3, 10.4,10.9 <i>Indiana Earth Science</i> 1.4	<i>Istep English</i> 10.6b2: <i>Indiana</i> ES 1.7, 1.143. <i>Indiana Geography</i> 3.1,	<i>Istep Math</i> 10.4 ES 1.22	<i>Istep English</i> 10.12; ES 1.23,1.24,1.28,2.6,2.7	<i>Istep English</i> 10.11,ES 1.22,1.23,1.24,1.27	<i>Istep English</i> 10.11,13,16 ES 1.11,1.12,1.13,1.14	<i>Istep Math</i> 10.4 ES 1.13,1.14,1.18,1.21	<i>Istep Eng</i> 10.6a,11 and 14 ES 1.10,1.13,1.15,1.16,1.21	<i>Istep Math</i> 10.1-3 <i>Istep Eng</i> 10.11 ES 1.20,1.26,2.5,1.22,1.27,1.28,1.29	ES 1.1, 1.3, 1.5, 1.6, 1.7, 2.1, 2.2, 2.3, 2.4, 2.5
Product Assessments It is assumed that teachers will assess students with traditional tests.	Lab Practical Exam, Formal written lab report, Oral Evaluations	Topographic and profile worksheets	Minerals, Igneous and metamorphic rocks lab and practicals, Mineral Web Quest, mineral story	Fault Block Worksheet, Plate Tectonics CS Rom	Volcano Internet Quest, Earthquake Triangulation, Quake and Volcano Location Worksheet,	Planetarium Seasons Lab, Size of the Sun Graphing Lab, Time Zone Problems, Vertical Column WS, Greenhouse Lab WS	Humidity Lab, Internet Weather worksheets, Tornado and Hurricane Tracking, March Madness, Forecasting,		Porosity Lab, Grand Canyon Lab, Sedimentary Rock Lab, Merrillvillium 1/2 life Lab, Paleontology Web-quest, Earth History Time Line	Planetarium Presentations, Astronomy presentations, Planet Walk research, Moon Calendar
Resources	Include the text book, ancillary materials, Assorted topical videos, supplemental worksheets									