

## 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  |
|---|--|---|--|---|---|---|--|--|--|---|
| <b>Essential Questions</b>  | 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?   |
| <b>Content</b><br>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  |
| <b>Standards Skills</b><br>i.e., processes and skills emphasized<br>Indiana Academic Standards plus MCSC skills | <i>Istep English</i> : 10.6 a&b, 10.11,10.7,10.14<br><i>Istep Math</i> 10.1-3, 10.4,10.9<br><i>Indiana Earth Science</i> 1.4 | <i>Istep English</i> 10.6b2: <i>Indiana</i> ES 1.7, 1.143.<br><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<br><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                                     |
| <b>Product Assessments</b><br>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 |
| <b>Resources</b>  | Include the text book, ancillary materials, Assorted topical videos, supplemental worksheets                                 |   |  |   |   |   |  |  |  |   |