

Science Curriculum Map

Grade and/or Course: 8<sup>th</sup> Grade Science

	<b>Quarter 1:</b>	<b>Quarter 2:</b>	<b>Quarter 3:</b>	<b>Quarter 4:</b>
<b>Essential Questions</b>	<p>What is Science and how do you “do it”?</p> <p>Who am I and why did I end up the way I am???</p>	<p>Where did we come from?</p> <p>What are the “Circles of Life”?</p>	<p>What is all this “stuff” in our world made of????</p> <p>What powers our world?</p>	<p>What powers our world?</p> <p>Where did the ‘Blue Marble’ come from and how do we take care of it –Pt2)?</p>
<b>Content in terms of essential Concepts and topics</b>	<p><u>Nature of Science</u>-(on-going)</p> <p>Scientific Models, Methods, Measurement and Safety</p> <p><u>Life Science</u></p> <p>Heredity Genetics Evolution Reproduction</p>	<p><u>Life Science (cont’d)</u></p> <p>History of Life-Geologic time scale</p> <p><u>Life Science (Environmental)</u></p> <p>Animals and their behavior Cycles of Nature</p>	<p><u>Physical Science/Chemistry</u></p> <p>Matter, Atoms and Elements Energy (conservation, bonding, and atomic energy, heat technology)</p>	<p><u>Physical Science/Chemistry (cont’d)</u></p> <p>Electricity and Electromagnetism Electronic technology</p> <p><u>Earth Science</u></p> <p>*Human Impact on Earth *Solar System</p>
<b>Standards/Skills i.e., processes and skills emphasized Indiana Academic Standards and MCSC skills</b>	<p>8.1.2, 8.1.3, 8.1.4, 8.1.5, 8.2.1, 8.2.2, 8.2.9, 8.5.6, 8.5.7, 8.1.8, 8.2.1, 8.2.6, 8.2.7, 8.5.5, 8.2.10, 8.3.6, 8.3.7, 8.7.1, 8.7.2, 8.7.4 8.2.3, 8.2.4 8.2.6, 8.4.7, 8.4.8</p>	<p>8.1.6, 8.2.7, 8.2.8, 8.3.8, 8.3.9, 8.7.5, 8.1.1, 8.1.8 8.1.7, 8.3.11, 8.5.4, 8.3.12, 8.6.1, 8.7.6, 8.1.6, 8.1.7, 8.2.2, 8.3.10, 8.3.13, 8.3.15, 8.5.3, 8.6.2, 8.6.3, 8.2.2, 8.2.6, 8.2.8, 8.3.9, 8.3.14, 8.5.3,</p>	<p>8.2.2, 8.2.7, 8.3.19, 8.3.20, 8.1.1, 8.1.8, 8.3.13, 8.3.18, 8.1.6, 8.2.4, 8.3.19, 8.1.3, 8.2.3, 8.2.8, 8.4.1, 8.4.2, 8.4.3 8.3.1, 8.3.5, 8.3.16, 8.3.17 8.1.7, 8.1.8,</p>	<p>8.1.1, 8.2.6, 8.2.7, 8.2.10, 8.4.9, 8.5.4</p> <p>8.2.1, 8.2.3, 8.2.5, 8.2.6, 8.2.7, 8.2.8, 8.4.1</p> <p>8.2.2, 8.4.4, 8.4.5, 8.4.6, 8.5.2, 8.7.7</p>

<b>Products/Assessments</b> <b>(It is assumed that teachers will assess students with traditional tests.)</b>	<u><b>Products/Assessments</b></u> <b>Wanted Poster / Famous Scientist</b> <b>(It is assumed that teachers will assess students with traditional tests.)</b>	<u><b>Products/Assessments</b></u> <b>Genetic Disorder Presentation</b> <b>(It is assumed that teachers will assess students with traditional tests.)</b>	<u><b>Products/Assessments</b></u> <b>Periodic Table Project</b> <b>(It is assumed that teachers will assess students with traditional tests.)</b>	<u><b>Products/Assessments</b></u> <b>Travel Brochure for a Planet</b> <b>(It is assumed that teachers will assess students with traditional tests.)</b>
<b>Resources</b>	<b>*Various Supplemental Resources</b> <b>*Internet Web Sites</b> <b>Prentice Hall Book – Human Biology</b>	<b>*Various Supplemental Resources</b> <b>*Internet Web Sites</b>	<b>*Various Supplemental Resources</b> <b>*Internet Web Sites</b> <b>*SCOPE Magazine</b>	<b>*Various Supplemental Resources</b> <b>*Internet Web Sites</b> <b>*Planetarium</b>