

# Year at A Glance: 7<sup>th</sup> Grade Science

2020-21

|           | Week  | Major Concepts / Topics  | Possible Resources  |
|-----------|-------|--|---|
| Quarter 1 | 1     | Beginning Science skills including Lab safety, review of lab equipment and lab practices.                          | <b>Bozemanscience.com:</b> Scientific Method<br><b>Phet.colorado.edu:</b> Energy Forms/ Changes<br>Cpalms. Org for all topics   |
|           | 2-4.5 | SC.7.N.1.1-N.1.6, N.3.1,3.2: Nature of Science/Laws Theories   |   |
|           | 4.5-9 | SC.7.P.11.1-11.4: Energy transformations/conservation of energy, flow of heat & changes associated with heat flow. |   |
|           | Week  | Major Concepts / Topics  | Possible Resources  |
| Quarter 2 | 1-2   | SC.7.P.10.1, N.3.2: Wave properties/electromagnetic spectrum   | <b>You Tube:</b> The electromagnetic spectrum:<br><a href="http://www.youtube.com/watch?v=kfS5Qn0wn2o">http://www.youtube.com/watch?v=kfS5Qn0wn2o</a>   |
|           | 3-5   | SC.7.P.10.2/10.3: Wave movement, Light behavior.   |   |
|           | 6-9   | SC.7.E.6.Earth's layers/rock cycle and surface/subsurface events.  |   |
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| Quarter 3 | 1-3.5 | SC.7.E.6.5/7: Plate tectonics/Continental Drift  | <b>Model of Earth's Layers:</b><br><a href="http://www.scec.org/education/k12/learn/Plate%20Tectonics%20to%20Structure%20of%20the%20Earth">http://www.scec.org/education/k12/learn/Plate Tectonics to Structure of the Earth</a><br><b>Phet.colorado.edu:</b> Plate Tectonics<br><b>Amoeba Sisters,</b> You tube: DNA |
|           |       |  |   |
|           | 3.5-5 | SC.7.E.6.4/6.3: Earth's age and evidence that supports geological change   |   |
|           | 5-9   | SC.7.L.6.1-16.4: DNA/heredity/genetics/mitosis/meiosis   |   |
|           | Week  | Major Concepts / Topics  | Possible Resources  |
| Quarter 4 | 1-5   | SC.7.L.17.1-3: Ecosystems/Interactions within  | <b>Bozemanscience.com:</b> Behavior/Natural Selection<br><b>Bozemanscience.com:</b> Speciation & Extinction   |
|           | 6-9   | SC.7.L.15.1, 2, 3: Evolution/natural selection/final exam review   |   |

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.