**Teacher: Bette Cobb Week of: December 2 – 6, 2019 Subject: 8th Grade GEN & ADV Science Period: 2, 3, 4, 5, 6**

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|  | OBJECTIVES | ACTIVITIES | RESOURCES | HOMEWORK | EVALUATION | Literacy  STANDARDS |
| MON | ACOS:  2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.  3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions. | **GEN BR:** Math Skills -Solve for Concentration  **ADV BR:** Separating Mixture Article  **Students will:**  **GEN:** Watch Solutions, Suspensions and Colloids AumSum video; fill in graphic organizer (using smartboard) & Doodle Notes; view samples of solutions, suspensions and colloids & test with light; complete Solution, Suspension or Colloid Flashcards.  **ADV:** Discuss Separation Techniques; watch Chromatography video – Paper Chromatography (Time Lapse) Sharpie Poster Black Marker; design & test a method for separating a mixture of water, rock salt, iron filings, sand, & beans. | **Glencoe Nature of Science**  Ch. 13 Mixtures, Solubility, & Acid/Base Solutions  Substances & Mixtures pp.452-459  Properties of Solutions pp.460-469  Acids & Base Solutions pp.470-477  **A+/LTF PowerPoints & Notes**  **Types of Matter Concept Map**  **Separating Mixtures Article**  [**https://youtu.be/XEAiLm2zuvc**](https://youtu.be/XEAiLm2zuvc)  **Doodle Notes**  **Solution, Suspension, Colloid Flashcards**  **Chromatography video – Paper Chromatography (Time Lapse) Sharpie Poster Black Marker**  **Separation Lab** | **GEN:** Review Ch. 13 Vocabulary  **ADV:** Review for Checkpoint 4.2 | Bell ringer; participation; lab | [CCSS.ELA-Literacy.RST.6-8.1](http://www.corestandards.org/ELA-Literacy/RST/6-8/1/)  [CCSS.ELA-Literacy.RST.6-8.2](http://www.corestandards.org/ELA-Literacy/RST/6-8/2/)  [CCSS.ELA-Literacy.RST.6-8.4](http://www.corestandards.org/ELA-Literacy/RST/6-8/4/)  [CCSS.ELA-Literacy.RST.6-8.6](http://www.corestandards.org/ELA-Literacy/RST/6-8/6/)  [CCSS.ELA-Literacy.RST.6-8.7](http://www.corestandards.org/ELA-Literacy/RST/6-8/7/) |
| TUE | ACOS:  2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.  3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions. | **GEN BR:** Read Separating Mixtures Article, Respond  **ADV BR:** Checkpoint4.2  **Students will:**  **GEN:** Review ways to separate a mixture; create a plan for separating a mixture of water, rock salt, iron filings, sand & beans; review chromatography with video “Paper Chromatography (Time Lapse) Sharpie Poster Black Marker”  **ADV:** Introduce Acids and Bases; discuss how Acids & Bases are measured; pH Lab. | **Glencoe Nature of Science**  Ch. 13 Mixtures, Solubility, & Acid/Base Solutions  Substances & Mixtures pp.452-459  Properties of Solutions pp.460-469  Acids & Base Solutions pp.470-477  **A+/LTF PowerPoints & Notes**  **A+/LTF Checkpoint 4.2**  **Chromatography Video:**  <https://youtu.be/y6-B9RcV7T8>  **pH Lab**  <https://youtu.be/y6-B9RcV7T8> | **GEN:** Review Ch. 13 Vocabulary  **ADV:** Review Acids & Bases & pH | Bell ringer; participation; Lab | [CCSS.ELA-Literacy.RST.6-8.1](http://www.corestandards.org/ELA-Literacy/RST/6-8/1/)  [CCSS.ELA-Literacy.RST.6-8.2](http://www.corestandards.org/ELA-Literacy/RST/6-8/2/)  [CCSS.ELA-Literacy.RST.6-8.4](http://www.corestandards.org/ELA-Literacy/RST/6-8/4/)  [CCSS.ELA-Literacy.RST.6-8.6](http://www.corestandards.org/ELA-Literacy/RST/6-8/6/)  [CCSS.ELA-Literacy.RST.6-8.7](http://www.corestandards.org/ELA-Literacy/RST/6-8/7/) |
| WED | ACOS:  2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.  3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions. | **GEN BR:** Content Vocabulary Lesson 2  **ADV BR:** pH Scale Article  **Students will:**  **GEN:** Discuss synthetic materials, how they are derived from natural resources, and their impact on society. Watch the video “Will Synthetic Vitamins Make Me Explode?, Students will research an assigned synthetic material and design, complete the research graphic organizer and an advertisement for it.  **ADV:** Discuss notes: pH scale; neutralization of acids & bases; buffers and their role in neutralization; observe PhET simulation; complete Acids & Bases Venn Diagram Activity. | **Glencoe Nature of Science**  Ch. 13 Mixtures, Solubility, & Acid/Base Solutions  Substances & Mixtures pp.452-459  Properties of Solutions pp.460-469  Acids & Base Solutions pp.470-477  **A+/LTF PowerPoints & Notes**  **Content Vocabulary Lesson 1**  **Website Research List**  **pH Scale Article**  **PhET Simulation - Acids & Bases PhET Simulation - pH Scale**  **Venn Diagram Activity** | **GEN:** Review Ch. 13 Vocabulary  **ADV:** Review pH, neutralization, & buffers | Bell ringer; participation | [CCSS.ELA-Literacy.RST.6-8.1](http://www.corestandards.org/ELA-Literacy/RST/6-8/1/)  [CCSS.ELA-Literacy.RST.6-8.2](http://www.corestandards.org/ELA-Literacy/RST/6-8/2/)  [CCSS.ELA-Literacy.RST.6-8.4](http://www.corestandards.org/ELA-Literacy/RST/6-8/4/)  [CCSS.ELA-Literacy.RST.6-8.6](http://www.corestandards.org/ELA-Literacy/RST/6-8/6/)  [CCSS.ELA-Literacy.RST.6-8.7](http://www.corestandards.org/ELA-Literacy/RST/6-8/7/) |
| THUR | ACOS:  2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.  3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions. | **GEN BR:** Content Practice A – Substances and Mixtures  **ADV BR:** Acid Rain Article  **Students will:**  **GEN:** Finish synthetic research and advertisements, present projects.  **ADV:** Complete pHundamental Lab & discuss dilution; complete Concentration – Math Skills Activity | **Glencoe Nature of Science**  Ch. 13 Mixtures, Solubility, & Acid/Base Solutions  Substances & Mixtures pp.452-459  Properties of Solutions pp.460-469  Acids & Base Solutions pp.470-477  **A+/LTF PowerPoints & Notes**  **Content Practice A – Substances & Mixtures**  **Acid Rain Article**  **pHundamental Lab**  **Concentration – Math Skills Activity** | **GEN:** Review Ch. 13 Vocabulary  **ADV:** Review for Checkpoint 4.5 | Presentations; participation; lab | [CCSS.ELA-Literacy.RST.6-8.1](http://www.corestandards.org/ELA-Literacy/RST/6-8/1/)  [CCSS.ELA-Literacy.RST.6-8.2](http://www.corestandards.org/ELA-Literacy/RST/6-8/2/)  [CCSS.ELA-Literacy.RST.6-8.4](http://www.corestandards.org/ELA-Literacy/RST/6-8/4/)  [CCSS.ELA-Literacy.RST.6-8.6](http://www.corestandards.org/ELA-Literacy/RST/6-8/6/)  [CCSS.ELA-Literacy.RST.6-8.7](http://www.corestandards.org/ELA-Literacy/RST/6-8/7/) |
| F  R  I | ACOS:  2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.  3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions. | **GEN BR:** Chapter 13 Vocab Quiz  **ADV BR:** Checkpoint 4.5  Students will:  **GEN:** Complete Elements, Compounds, & Mixtures Task Cards, Complete study guide.  **ADV:** Discuss synthetic materials, how they are derived from natural resources, and their impact on society. Watch the video “Will Synthetic Vitamins Make Me Explode?, Students will research an assigned synthetic material and design, complete the research graphic organizer and an advertisement for it. | **Glencoe Nature of Science**  Ch. 13 Mixtures, Solubility, & Acid/Base Solutions  Substances & Mixtures pp.452-459  Properties of Solutions pp.460-469  Acids & Base Solutions pp.470-477  **A+/LTF PowerPoints & Notes**  **A+/LTF Checkpoint 4.5**  **Chapter 13 Vocab Quiz**  **Study Guide**  **Elements, Compounds, & Mixtures Task Cards** | **GEN:** Finish Study Guide  **ADV:** Finish Synthetic Material research & product development | Bell ringer; participation | [CCSS.ELA-Literacy.RST.6-8.1](http://www.corestandards.org/ELA-Literacy/RST/6-8/1/)  [CCSS.ELA-Literacy.RST.6-8.2](http://www.corestandards.org/ELA-Literacy/RST/6-8/2/)  [CCSS.ELA-Literacy.RST.6-8.4](http://www.corestandards.org/ELA-Literacy/RST/6-8/4/)  [CCSS.ELA-Literacy.RST.6-8.6](http://www.corestandards.org/ELA-Literacy/RST/6-8/6/)  [CCSS.ELA-Literacy.RST.6-8.7](http://www.corestandards.org/ELA-Literacy/RST/6-8/7/) |