

**Columbus County Schools**  
*Science Curriculum Guide*

<b>SUBJECT:</b> Science	<b>GRADE LEVEL:</b> 7 <sup>th</sup>	<b>GRADING PERIOD:</b> 2 <sup>nd</sup> 9 weeks
Module(s): A – Cells and Heredity	Time Frame: 4 weeks	<b>Unit: Cells and Heredity</b> (Evolution and Genetics)
Essential Standard: <b>7.L.2: Understand the relationship of the mechanisms of cellular reproduction, patterns of inheritance and external factors to potential variation among offspring.</b>		

<b>Lesson: Sexual/Asexual Reproduction (Time Frame: 2 Weeks)</b>	<b>Technology and Literacy Standards and Tasks</b>	<b>Academic Vocabulary:</b>	<b>Assessment(s):</b>	<b>Additional Resources:</b>
<p><u><b>Clarifying Objective:</b></u></p> <p><b>7.L.2.1:</b> <b>Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).</b></p> <p><b>Essential Questions:</b></p> <p>How do cells divide?</p> <p>How do cells divide for sexual reproduction?</p> <p>How do organisms reproduce?</p>	<p><i>Science Fusion Online Components and Digital Lessons</i></p> <p><b>Write to Learn (See Additional Resources)</b></p> <p><b>Other Strategies:</b></p> <ul style="list-style-type: none"> <li>Graphic Organizers</li> <li>Venn Diagram Comparing Sexual and Asexual Reproduction</li> <li>Summarizing Video</li> <li>Mitosis Project</li> <li>Bell Ringers/Exit Tickets</li> </ul> <p><b>Technology Standards</b></p> <p>7.RP.1: 7.SE.1:</p> <p><b>Literacy Standards:</b></p> <p><a href="#"><u>CCSS.ELA-Literacy.RST.6-8.7</u></a></p> <p><a href="#"><u>CCSS.ELA-Literacy.RST.6-8.9</u></a></p>	<ul style="list-style-type: none"> <li>DNA</li> <li>chromosomes</li> <li>cell cycle</li> <li>interphase</li> <li>mitosis</li> <li>cytokinesis</li> <li>sexual reproduction</li> <li>asexual reproduction</li> <li>fertilization</li> <li>heredity</li> <li>genotype</li> <li>phenotype</li> </ul>	<p><b>Formative:</b></p> <ul style="list-style-type: none"> <li><b>Uncovering Student Ideas in Science Vol. 2 (Keeley)</b> <ul style="list-style-type: none"> <li>Baby Mice page 130</li> </ul> </li> <li>Write to Learn Assignment</li> <li>Quiz</li> <li>Review Games</li> <li>Group Assignments</li> <li>Bell Ringers/Exit Tickets</li> </ul> <p><b>Summative:</b></p> <ul style="list-style-type: none"> <li><b>Unit Tests</b></li> <li><b>County Benchmarks</b></li> <li><b>Projects</b></li> <li><i>Exam View Test bank</i></li> <li>SchoolNet Test bank</li> </ul>	<p>McDougal Littell 7<sup>th</sup> Grade Science Book page 70C – 159 C</p> <p>Science Fusion Work Book Cells and Heredity page 90 - 175</p> <p>Science Fusion Teacher Edition Cells and Heredity page 132 – 235</p> <p><b>Write to Learn</b></p> <p><b><a href="#"><u>Science 6 2.3 How do cells grow and divide?</u></a></b></p>

<b>Lesson: Heredity and Genetics</b>  <b>(Time Frame: 2 Weeks)</b>	<b>Technology and Literacy Standards and Tasks</b>	<b>Academic Vocabulary:</b>	<b>Assessment(s):</b>	<b>Additional Resources:</b>
<p><b><u>Clarifying Objective:</u></b></p> <p><b>7.L.2.2: Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b></p> <p><b>7.L.2.3: Explain the impact of the environment and lifestyle choices on biological inheritance (to include common genetic diseases) and survival.</b></p> <p><b>Essential Question:</b></p> <p>How are traits inherited?</p> <p>How are patterns of inheritance studied?</p>	<p><b><i>Science Fusion Online Components and Digital Lessons</i></b></p> <p><b>Write to Learn (See Additional Resources)</b></p> <p><b>Other Strategies:</b></p> <ul style="list-style-type: none"> <li>• Graphic Organizers</li> <li>• Summarizing Video</li> <li>• Bell Ringers/Exit Tickets</li> </ul> <p><b>Technology Standards</b></p> <p>7.RP.1: 7.SE.1:</p> <p><b>Literacy Standards:</b>  <a href="#"><u>CCSS.ELA-Literacy.RST.6-8.3</u></a>  <a href="#"><u>CCSS.ELA-Literacy.RST.6-8.7</u></a>  <a href="#"><u>CCSS.ELA-Literacy.RST.6-8.4</u></a></p>	<ul style="list-style-type: none"> <li>• dominant</li> <li>• genes</li> <li>• phenotype</li> <li>• recessive</li> <li>• allele</li> <li>• incomplete dominance</li> <li>• codominance</li> <li>• Punnett square</li> <li>• ratio</li> <li>• probability</li> <li>• pedigree</li> <li>• nucleotide</li> <li>• replication</li> <li>• mutation</li> <li>• RNA</li> <li>• ribosome</li> <li>• biotechnology</li> <li>• genetic engineering</li> <li>• artificial selection</li> <li>• clone</li> <li>• genetic disease</li> </ul>	<p><b>Formative:</b></p> <ul style="list-style-type: none"> <li>• Bell Ringers/Exit Tickets</li> <li>• Graphic Organizers</li> <li>• Extended Response Questions</li> <li>• Write to Learn Assignments</li> </ul> <p><b>Summative:</b></p> <ul style="list-style-type: none"> <li>• Unit Tests</li> <li>• County Benchmarks</li> <li>• Projects</li> <li>• <i>Exam View</i> Test bank</li> <li>• SchoolNet Test bank</li> </ul>	<p>McDougal Littell 7<sup>th</sup> Grade Science Book page 70C – 159 C</p> <p>Science Fusion Work Book Cells and Heredity page 90 - 175</p> <p>Science Fusion Teacher Edition Cells and Heredity page 132 - 235</p> <p><b>Write to Learn:</b></p> <p><b><u>Cells and Heredity: 5.1 Darwin's Theory</u></b></p>

**Technology Standards Used in this Unit:**

7.RP.1: Group work and individual research activities using online resources.

7.SE.1: Learn safe practices when using online resources and the proper way to summarize retrieved information.

**Literacy Standards Used in this Unit:**

CCSS.ELA-Literacy.RST.6-8.3 Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

CCSS.ELA-Literacy.RST.6-8.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics.

CCSS.ELA-Literacy.RST.6-8.7 Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).

CCSS.ELA-Literacy.RST.6-8.9 Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>
<b><u>Lesson:</u> Sexual and Asexual Reproduction</b>	<b><u>Lesson:</u> Sexual and Asexual Reproduction</b>	<b><u>Lesson:</u> Sexual and Asexual Reproduction</b>	<b><u>Lesson:</u> Sexual and Asexual Reproduction</b>	<b><u>Lesson:</u> Sexual and Asexual Reproduction</b>
<b><u>Clarifying Objective:</u></b> <b>7.L.2.1:</b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> DNA, chromosomes, cell cycle, interphase, mitosis, cytokinesis, sexual reproduction	<b><u>Clarifying Objective:</u></b> <b>7.L.2.1:</b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> DNA, chromosomes, cell cycle, interphase, mitosis, cytokinesis, sexual reproduction	<b><u>Clarifying Objective:</u></b> <b>7.L.2.1:</b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> DNA, chromosomes, cell cycle, interphase, mitosis, cytokinesis, sexual reproduction	<b><u>Clarifying Objective:</u></b> <b>7.L.2.1:</b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> DNA, chromosomes, cell cycle, interphase, mitosis, cytokinesis, sexual reproduction	<b><u>Clarifying Objective:</u></b> <b>7.L.2.1:</b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> DNA, chromosomes, cell cycle, interphase, mitosis, cytokinesis, sexual reproduction
<b><u>Bell Ringer:</u> Engage and Explore Activity</b>  <i>How do they get so big?</i>  (pg. 130 TE–Module A) Science Fusion Module A: Cells and Heredity  <b><u>Instructional Tasks:</u></b> Read Unit 2- Lesson 1 Mitosis: pg. 92-97 Student Workbook	<b><u>Bell Ringer:</u> Interpreting Visuals</b>  Examine the diagram of the cell cycle. Identify the main stages and tell which stage is the longest. Pg.138 TE-Module A  <b><u>Instructional Tasks:</u></b> Re-read about the phases of mitosis.  Have students make a chart	<b><u>Bell Ringer:</u></b>  Mitosis Diagram Label  See worksheet file: (word document) Mitosis diagram  <b><u>Instructional Tasks:</u></b> Mitosis Worksheet Extra Practice: Application of stages of Mitosis  See worksheet file: (word	<b><u>Bell Ringer:</u> Two Multiple Choice Questions on Mitosis and/or Cell Cycle</b>  <b><u>Instructional Tasks:</u></b> Quick Lab: DNA, Chromosomes, and Cell division  OR  Quick Lab: Mitosis Flipbooks	<b><u>Bell Ringer:</u> Choose 2 of the vocabulary words from this week and make a word triangle for both!</b>  <b><u>Instructional Tasks:</u></b> Alternative Assessment  Climb the Ladder Mitosis (pg. 135 TE)  OR  Quiz on Mitosis and Cell

<p><b>Or</b></p> <p><b>Digital Lesson on Mitosis</b></p> <p><u><b>Summarizer:</b></u></p> <p><b>What is mitosis?</b></p>	<p>(see text pg. 97 in student workbook) that includes defining the stages of mitosis by writing the details and drawing the cell detail.</p> <p><u><b>Summarizer:</b></u></p> <p>What would happen in a cell went through mitosis but did not go through cytokinesis?</p>	<p><b>document) Mitosis worksheet</b></p> <p>OR</p> <p><b>Use Differentiated Instruction pg. 133 TE</b></p> <p>Order Matters</p> <p>Phases of Mitosis Comic</p> <p><u><b>Summarizer:</b></u></p> <p><b>Probing Questions (TE pg. 139)</b></p> <p>Sometimes a cell inaccurately duplicates its DNA, and the resulting cells are not identical. Ask: What effects might such results have?</p>	<p>(See pg. 131 TE)</p> <p><u><b>Summarizer:</b></u></p> <p><b>Critical Thinking from Lesson Review segment</b></p> <p>Student Workbook pg. 99 #8-10 (Pg. 140 TE)</p>	<p><b>Cycle</b></p> <p><u><b>Summarizer:</b></u></p> <p><b>Previewing Vocabulary- Root Words and Origins:</b></p> <p>(Pg. 133 TE)</p>
<p><u><b>Assessment:</b></u></p> <p>observation and participation</p>	<p><u><b>Assessment:</b></u></p> <p>Graded Assignment, participation and observation</p>	<p><u><b>Assessment:</b></u></p> <p>Graded Assignment, participation and observation</p>	<p><u><b>Assessment:</b></u></p> <p>observation and participation</p>	<p><u><b>Assessment:</b></u></p> <p>Summative Assessment</p>

<u>Day 6</u>	<u>Day 7</u>	<u>Day 8</u>	<u>Day 9</u>	<u>Day 10</u>
<b><u>Lesson:</u> Reproduction and Heredity</b>	<b><u>Lesson:</u> Reproduction and Heredity</b>	<b><u>Lesson:</u> Reproduction and Heredity</b>	<b><u>Lesson:</u> Reproduction and Heredity</b>	<b><u>Lesson:</u> Reproduction and Heredity</b>
<b><u>Clarifying Objective:</u></b> <b><u>7.L.2.1:</u></b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> homologous chromosomes, meiosis, gametes	<b><u>Clarifying Objective:</u></b> <b><u>7.L.2.1:</u></b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> homologous chromosomes, meiosis, gametes	<b><u>Clarifying Objective:</u></b> <b><u>7.L.2.1:</u></b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> homologous chromosomes, meiosis, gametes	<b><u>Clarifying Objective:</u></b> <b><u>7.L.2.1:</u></b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> asexual reproduction, sexual reproduction, fertilization, budding, binary fission, spores	<b><u>Clarifying Objective:</u></b> <b><u>7.L.2.1:</u></b> Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).  <b><u>Academic Vocabulary:</u></b> asexual reproduction, sexual reproduction, fertilization, budding, binary fission, spores
<b><u>Bell Ringer:</u></b>  Engage Your Brain pg.150 TE #1 & 2  (pg. 101 Student Workbook)  <b><u>Instructional Tasks:</u></b> Read Unit 2- Lesson 2 pg. 102-106  Use Skeletal Notes with Lesson 2	<b><u>Bell Ringer:</u></b>  Interpreting Visuals: pg. 151 TE  Questions on male chromosome visual  <b><u>Instructional Tasks:</u></b> Compare Meiosis and Mitosis Chart (Student Workbook pg. 106)  OR	<b><u>Bell Ringer:</u></b> Critical thinking from Lesson Review #7-9 (pg. 109 Student Workbook)  <b><u>Instructional Tasks:</u></b> Complete Visual Summary questions (Student Workbook pg. 108)  Answer Meiosis Worksheet (see word file: Meiosis	<b><u>Bell Ringer:</u></b> Read Health Watch: Down Syndrome (pg. 107 Student Workbook) Answer questions # 13-14  <b><u>Instructional Tasks:</u></b> Quiz on Meiosis AND Begin reading Lesson 3: Sexual and asexual	<b><u>Bell Ringer:</u></b> Engage Your Brain #1-2 (TE pg. 166)  <b><u>Instructional Tasks:</u></b> Advantages of Asexual and Sexual Reproduction VENN DIAGRAM (see pg. 169 TE)

<p><b>OR</b></p> <p><b>Meiosis Webquest</b></p> <p>(see word file: Meiosis Internet Lesson)</p> <p><u><b>Summarizer:</b></u></p> <p><b>How does the number of chromosomes in sex cells compare with the number of chromosomes in body cells?</b></p>	<p><b>Phases of Meiosis Worksheet</b></p> <p>(see word file: Phases of Meiosis)</p> <p><u><b>Summarizer:</b></u> What is the function of meiosis?</p>	<p><b>Worksheet)</b></p> <p><b>OR</b></p> <p><b>Meiosis Posters-</b> Students will make 3D posters of Meiosis that depict each step and show what is occurring in the cell.</p> <p>TE Pg. 144</p> <p><u><b>Summarizer:</b></u></p> <p><b>Study Guide for Test on Mitosis and Meiosis</b></p>	<p><b>reproduction (TE pg.166-169)</b></p> <p><u><b>Summarizer:</b></u></p> <p><b>What are the four main ways that organisms reproduce asexually?</b></p>	<p><b>AND</b></p> <p><b>Answer Lesson Review # 1-10 pg. 121 in Student Workbook</b></p> <p>(TE pg. 170)</p> <p><u><b>Summarizer:</b></u></p> <p><b>Visual Summary Student Workbook</b></p> <p><b>pg. 120 #17-23</b></p> <p><b>TE pg. 170</b></p>
<p><u><b>Assessment:</b></u></p> <p>observation and participation</p>	<p><u><b>Assessment:</b></u></p> <p>observation, participation, graded assignment</p>	<p><u><b>Assessment:</b></u></p> <p>observation, participation, graded assignment</p>	<p><u><b>Assessment:</b></u></p> <p>observation, participation, graded assignment</p>	<p><u><b>Assessment:</b></u></p> <p>observation and participation</p>

<u>Day 11</u>	<u>Day 12</u>	<u>Day 13</u>	<u>Day 14</u>	<u>Day 15</u>
<b><u>Lesson: Heredity and Genetics</u></b>	<b><u>Lesson: Reproduction and Heredity</u></b>  <b>Mitosis and Meiosis Assessment</b>	<b><u>Lesson: Heredity and Genetics</u></b>	<b><u>Lesson: Heredity and Genetics</u></b>	<b><u>Lesson: Heredity and Genetics</u></b>
<b><u>Clarifying Objective:</u></b> <b>7.L.2.2:</b> <b>Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>  <b><u>Academic Vocabulary:</u></b> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease	<b><u>Clarifying Objective:</u></b> <b>7.L.2.1:</b> <b>Explain why offspring that result from sexual reproduction (fertilization and meiosis) have greater variation than offspring that result from asexual reproduction (budding and mitosis).</b>  <b><u>Academic Vocabulary:</u></b> DNA, chromosomes, cell cycle, interphase, mitosis, cytokinesis, sexual reproduction, homologous chromosomes, meiosis, gametes	<b><u>Clarifying Objective:</u></b> <b>7.L.2.2:</b> <b>Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>  <b><u>Academic Vocabulary:</u></b> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease	<b><u>Clarifying Objective:</u></b> <b>7.L.2.2:</b> <b>Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>  <b><u>Academic Vocabulary:</u></b> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease	<b><u>Clarifying Objective:</u></b> <b>7.L.2.2:</b> <b>Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>  <b><u>Academic Vocabulary:</u></b> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease
<b><u>Bell Ringer: Classifying Traits pg.180 TE</u></b>  <b>Students will list traits that they think are acquired or inherited. Students will</b>	<b><u>Bell Ringer: N/A</u></b>  <b><u>Instructional Tasks:</u></b> <b>Assessment on Mitosis and Meiosis</b>	<b><u>Bell Ringer: Engage Your Brain pg. 180 TE</u></b>	<b><u>Bell Ringer: Interpreting Visuals pg. 181 TE</u></b>  <b>(4 questions on pea pod color)</b>	<b><u>Bell Ringer: Engage your brain #1 &amp; 2 (pg. 196 TE)</u></b>  <b><u>Instructional Tasks:</u></b> <b>Read Unit 2- Lesson 5 Student Workbook pg. 138-</b>



<p>add to or change the list as they read Lesson 4.</p> <p><b><u>Instructional Tasks:</u></b> Read Unit 2- Lesson 4 Student Workbook pg. 124-127</p> <p><b>Vocabulary Activity:</b> Define the 8 terms found in Student Workbook pg. 123. Use any vocabulary strategy you like: word triangle, four square, or flip book</p> <p><b><u>Summarizer:</u></b> Draw a picture of a chromosome and label its parts; alleles and gene!</p> <p>(see pg. 182 TE)</p>	<p><b><u>Summarizer:</u></b> N/A Test Day</p>	<p><b><u>Instructional Tasks:</u></b> Finish reading Unit 2- Lesson 4</p> <p>Student Workbook pg. 128-131</p> <p>AND</p> <p>Answer Lesson Review #1-9 pg. 133 Student Workbook</p> <p><b><u>Summarizer:</u></b> Interpreting Visuals: Photos of the Arctic Cat pg. 183 TE</p>	<p><b><u>Instructional Tasks:</u></b> Digital Lesson on Heredity</p> <p>OR</p> <p>Virtual Lab “Crossing Pea Plants”</p> <p><b><u>Summarizer:</u></b> What is the difference between co-dominance and incomplete dominance?</p>	<p>142</p> <p>OR</p> <p>Digital Lesson on Punnett Squares</p> <p>Lesson 5- Slides 1-10</p> <p><b><u>Summarizer:</u></b> Why is it important to understand genetics and heredity? (pg. 185 TE)</p>
<p><b><u>Assessment:</u></b> observation and participation</p>	<p><b><u>Assessment:</u></b> Summative Assessment</p>	<p><b><u>Assessment:</u></b> observation, participation, graded assignment</p>	<p><b><u>Assessment:</u></b> observation, participation, graded assignment</p>	<p><b><u>Assessment:</u></b> observation, participation, graded assignment</p>

<u><b>Day 16</b></u>	<u><b>Day 17</b></u>	<u><b>Day 18</b></u>	<u><b>Day 19</b></u>	<u><b>Day 20</b></u>
<u><b>Lesson: Heredity and Genetics</b></u>	<u><b>Lesson: Reproduction and Heredity</b></u>	<u><b>Lesson: Heredity and Genetics</b></u>	<u><b>Lesson: Heredity and Genetics</b></u>	<u><b>Lesson: Heredity and Genetics</b></u>
<u><b>Clarifying Objective:</b></u> <b>7.L.2.2: Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>	<u><b>Clarifying Objective:</b></u> <b>7.L.2.2: Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>	<u><b>Clarifying Objective:</b></u> <b>7.L.2.2: Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>	<u><b>Clarifying Objective:</b></u> <b>7.L.2.2: Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>	<u><b>Clarifying Objective:</b></u> <b>7.L.2.2: Infer patterns of heredity using information from Punnett squares and pedigree analysis.</b>
<u><b>Academic Vocabulary:</b></u> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease	<u><b>Academic Vocabulary:</b></u> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease	<u><b>Academic Vocabulary:</b></u> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease	<u><b>Academic Vocabulary:</b></u> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease	<u><b>Academic Vocabulary:</b></u> dominant, genes, phenotype, recessive, allele, incomplete dominance, codominance, Punnett square, ratio, probability, pedigree, nucleotide, replication, mutation, RNA, ribosome, biotechnology, genetic engineering, artificial selection clone, genetic disease
<u><b>Bell Ringer: Active Reading, #3 &amp; #5</b></u>  <u><b>Instructional Tasks:</b></u> -Complete Visual of Punnett Square- #6 &7 (pg. 139 Student workbook)	<u><b>Bell Ringer: What is the phenotype of an individual with one allele for dimples and one allele for no dimples?</b></u>  <u><b>Instructional Tasks:</b></u> <a href="#">Bikini Bottom Genetics</a> <a href="#">Incomplete Dominance</a>	<u><b>Bell Ringer: Interpreting Visuals TE p. 182</b></u>  <u><b>Instructional Tasks:</b></u> <a href="#">Bikini Bottom Genetics Review</a>  <u><b>Summarizer:</b></u> Visualize It! p. 139 Student	<u><b>Bell Ringer: Heredity Game TE p. 178 or Modify it to a set of questions on the board or paper</b></u>  <u><b>Instructional Tasks:</b></u> <a href="#">Bikini Bottom Genetics Quiz</a>	<u><b>Bell Ringer: Lesson Review Critical Thinking Question #11 Pg. 185 TE</b></u>  <u><b>Instructional Tasks:</b></u> Climb the ladder; It's Hereditary

<p><b>-Do the Math Activity-</b></p> <p>(pg. 140-141 Student workbook)</p> <p><b>OR</b></p> <p><b>Practice worksheet on Punnett Squares</b></p> <p><a href="#">Bikini Bottom Genetics Punnett Square Practice</a></p> <p><a href="#">Bikini Bottom Genetics #2</a></p> <p><b><u>Summarizer:</u></b></p> <p>Discuss and answer questions students may have about Punnett squares</p>	<p><b><u>Summarizer:</u></b></p> <p><b>Visualize It #16 p. 130 Student Workbook</b></p>	<p><b>Workbook</b></p>	<p><b><a href="#">Genetics Review Challenge</a></b></p> <p><b><u>Summarizer:</u></b></p> <p><b>Math Connection TE p. 194</b></p>	<p><b>Alternative Assessment pg. 179 TE</b></p> <p><b>Formative Assessment:</b></p> <p><b>Uncovering Student Ideas in Science Vol. 2 (Keeley)</b></p> <p>Baby Mice page 130</p> <p><b><u>Summarizer:</u> Answer Visual Summary from pg. 132 Student Workbook</b></p> <p><b>(pg. 185 TE)</b></p>
<p><b><u>Assessment:</u></b></p> <p>Observation and Participation</p>	<p><b><u>Assessment:</u></b></p> <p>Observation, participation</p>	<p><b><u>Assessment:</u></b></p> <p>Observation, Participation</p>	<p><b><u>Assessment:</u></b></p> <p>Quiz, Graded Assignment</p>	<p><b><u>Assessment:</u></b></p> <p>Summative Assessment</p>