

# Pickens High School Lesson Planning Template

<b>Grade Level:</b> 9-11					<b>Teacher/Room:</b> McCoy / 188					<b>Course(s)/ Period(s):</b> Physical Science / 1/2/4					<b>Week of:</b> Jan 12-16, 2014				
<b>Unit Vocabulary:</b> wafting technique, acids, bases, neutralization, Bunsen burner, SI System, accuracy, precision, significant figures, density																			
<b>Instructional Strategies Used:</b> direct instruction, Focused Learning, note-taking, BYOD, lab activity, computer simulation, word splash, concept map																			
Day 1				Day 2				Day 3				Day 4				Day 5			
<b>Common Core Standard(s):</b> GPS SCSH5. Students will demonstrate the computation and estimation skills necessary for analyzing data and developing reasonable scientific explanations. a. Trace the source on any large disparity between estimated and calculated answers to problems. b. Consider possible effects of measurement errors on calculations. c. Recognize the relationship between accuracy and precision. d. Express appropriate numbers of significant figures for calculated data, using scientific notation where appropriate.  ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting.  ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				<b>Common Core Standard(s)</b>  GPS SCSH2. Students will use standard safety practices for all classroom laboratory and field investigations.  ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting.  ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				<b>Common Core Standard(s):</b>  GPS SPS2 a. Calculate density when given a means to determine a substance's mass and volume.  ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting.  ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				<b>Common Core Standard(s):</b>  GPS SPS2 a. Calculate density when given a means to determine a substance's mass and volume.  ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting.  ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				<b>Common Core Standard(s):</b>  GPS SPS1 Students will investigate our current understanding of the atom.  ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting.  ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.			
<b>Essential Question:</b> Why are accurate and precise measurements important in the science lab?				<b>Essential Question:</b> How are linear measurements taken in metrics?				<b>Essential Question:</b> If you place an object in water, how do you know if it will float or not?				<b>Essential Question:</b> How do you calculate density of a solid?				<b>Essential Question:</b> What is the structure of an atom?			
<b>Mini Lesson:</b> <ul style="list-style-type: none"> <li>Safety Quiz</li> </ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"> <li>Acrostics with words "Lab Safety"</li> </ul>				<b>Mini Lesson:</b> <ul style="list-style-type: none"> <li>Introduce Density</li> </ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"> <li>word splash</li> </ul>				<b>Mini Lesson:</b> <ul style="list-style-type: none"> <li>Introduction to ExploreLearning Simulation</li> </ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"> <li>word splash</li> </ul>				<b>Mini Lesson:</b> <ul style="list-style-type: none"> <li>Finish Safety PPT</li> </ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"> <li><a href="https://www.youtube.com/watch?v=-f5FBvtJ7T0">https://www.youtube.com/watch?v=-f5FBvtJ7T0</a></li> </ul>				<b>Mini Lesson:</b> <ul style="list-style-type: none"> <li>Structure of Atom Video with handouts</li> </ul> <b>Activating Strategies:</b> <ul style="list-style-type: none"> <li><a href="https://www.youtube.com/watch?v=otPvUTNstS4">https://www.youtube.com/watch?v=otPvUTNstS4</a></li> </ul>			

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<p><b>Lesson:</b></p> <ul style="list-style-type: none"> <li>Accuracy vs Precision notes and worksheet</li> <li>Variables Worksheet</li> </ul> <p><b>Resource/Materials:</b></p> <ul style="list-style-type: none"> <li>Worksheets</li> <li>LCD/Computer</li> </ul>	<p><b>Lesson:</b></p> <ul style="list-style-type: none"> <li>Linear Measurement Lab</li> </ul> <p><b>Resource/Materials:</b></p> <ul style="list-style-type: none"> <li>linear measurements lab handouts and materials</li> </ul>	<p><b>Lesson:</b></p> <ul style="list-style-type: none"> <li>Computer Lab to do Density ExploreLearning Simulation</li> <li>Computer Lab to do Achieve 3000</li> </ul> <p><b>Resource/Materials:</b></p> <ul style="list-style-type: none"> <li>worksheets</li> <li>LCD/Computer</li> </ul>	<ul style="list-style-type: none"> <li><a href="https://www.youtube.com/watch?v=ZhL68D9BPiw">https://www.youtube.com/watch?v=ZhL68D9BPiw</a></li> </ul> <p><b>Lesson:</b></p> <ul style="list-style-type: none"> <li>Density Lab</li> </ul> <p><b>Resource/Materials:</b></p> <ul style="list-style-type: none"> <li>Density Lab Materials and handouts</li> <li>computer/LCD</li> </ul>	<p style="text-align: right;">&amp;list=RDYSyWMnTK2jM&amp;index=2</p> <p><b>Lesson:</b></p> <ul style="list-style-type: none"> <li>Atom PPT</li> <li>Chapter 17 Note-taking worksheets</li> </ul> <p><b>Resource/Materials:</b></p> <ul style="list-style-type: none"> <li>LCD/Computer</li> <li>worksheets</li> </ul>
<p><b>Differentiation:</b> <i>Content/Process/Product:</i></p> <ul style="list-style-type: none"> <li></li> </ul> <p><i>Grouping Strategy (if any):</i></p> <ul style="list-style-type: none"> <li></li> </ul> <p><i>Assessment Strategy:</i></p> <ul style="list-style-type: none"> <li></li> </ul>	<p><b>Differentiation:</b> <i>Content/Process/Product:</i></p> <ul style="list-style-type: none"> <li>process - lab</li> </ul> <p><i>Grouping Strategy (if any):</i></p> <ul style="list-style-type: none"> <li></li> </ul> <p><i>Assessment Strategy:</i></p> <ul style="list-style-type: none"> <li></li> </ul>	<p><b>Differentiation:</b> <i>Content/Process/Product:</i></p> <ul style="list-style-type: none"> <li>Lexile Grouping using Achieve 3000</li> </ul> <p><i>Grouping Strategy (if any):</i></p> <ul style="list-style-type: none"> <li></li> </ul> <p><i>Assessment Strategy:</i></p> <ul style="list-style-type: none"> <li></li> </ul>	<p><b>Differentiation:</b> <i>Content/Process/Product:</i></p> <ul style="list-style-type: none"> <li>process - lab</li> </ul> <p><i>Grouping Strategy (if any):</i></p> <ul style="list-style-type: none"> <li>flexible grouping</li> </ul> <p><i>Assessment Strategy:</i></p> <ul style="list-style-type: none"> <li></li> </ul>	<p><b>Differentiation:</b> <i>Content/Process/Product:</i></p> <ul style="list-style-type: none"> <li>provide copy of PPT for ESL students</li> </ul> <p><i>Grouping Strategy (if any):</i></p> <ul style="list-style-type: none"> <li></li> </ul> <p><i>Assessment Strategy:</i></p> <ul style="list-style-type: none"> <li></li> </ul>
<p><b>(What form of assessment did you use to determine your differentiation strategy?)</b></p>				
<p><b>Assessment :</b></p> <p><i>Formative:</i></p> <p><i>Summative:</i> safety quiz</p>	<p><b>Assessment :</b></p> <p style="text-align: center; background-color: yellow;"><b>(Formative should be listed daily. List all that apply. Summative only applies to major grades.)</b></p> <p><i>Formative:</i></p> <p><i>Summative:</i></p>	<p><b>Assessment :</b></p> <p><i>Formative:</i> ExploreLearning Worksheet/Achieve 3000</p> <p><i>Summative:</i></p>	<p><b>Assessment :</b></p> <p><i>Formative:</i> lab report</p> <p><i>Summative:</i></p>	<p><b>Assessment :</b></p> <p><i>Formative:</i> note-taking worksheets</p> <p><i>Summative:</i></p>
<p><b>Homework:</b> study worksheets</p>	<p><b>Homework:</b> finish lab report</p>	<p><b>Homework:</b> Density worksheet</p>	<p><b>Homework:</b> finish lab report</p>	<p><b>Homework:</b> study notes</p>

Resources and Reflective Notes: \*\*\*\*\*Please note that these plans may change.\*\*\*\*\*