

### Science Instructional Unit Rubric

	A/A-	B+/B/B-	C+/C/C-/D+/D	D-/F
<b>Lesson Plans/ Overall Unit Development</b>  <b>(30% of total grade)</b>	Lesson plans are <b>well developed</b> and follow an appropriate scope and sequence in the unit. A variety of instructional strategies are used throughout the lessons. Required lesson plan format is adhered to consistently. The unit is creative, novel, relevant to learners, and requires learners' active involvement.  <p style="text-align: center;"><b>A</b></p>	Lesson plans follow an appropriate scope and sequence in the unit. A variety of instructional strategies are used throughout the lessons. Required lesson plan format is adhered to consistently.	Some lessons are not planned according to students' abilities or prior knowledge and experiences; they may be too difficult, too easy, or have inappropriate pacing. More variety of instructional strategies could be used throughout the lessons. Required lesson plan format is not adhered to consistently throughout the unit.	Lesson plans may not follow an appropriate scope and sequence in the unit. More variety of instructional strategies could be used throughout the lessons. The required lesson format is adhered to inconsistently and/or a required component(s) is missing.
<b>Use of Inquiry Methodologies</b>  <b>(10% of total grade)</b>	Learners are engaged in 2-3 lessons that contain essential features of inquiry appropriate for students' age and abilities. <b>Student-centered data collection</b> is emphasized in the unit.  <p style="text-align: center;"><b>A</b></p>	Learners are engaged in 2-3 lessons that contain essential features of inquiry appropriate for students' age and abilities.	Learners are engaged in at least two lessons that contains essential features of inquiry appropriate for students' age and ability. Additional features of inquiry should be incorporated in the lesson plans.	Students are not engaged much in essential features of inquiry throughout the unit's lessons.
<b>Adaptations for students with special needs and English language learners</b>  <b>(10% of total grade)</b>	General accommodations for diverse learners (e.g. extended time for assignments, guided notes, organizational tools, adaptive software and technologies, orally read instructions, and the like) and English language learners (use of word wall, visualizations, and the like) are included in <b>each</b> lesson plan.  <p style="text-align: center;"><b>A</b></p>	General accommodations for diverse learners (e.g. extended time for assignments, guided notes, organizational tools, adaptive software and technologies, orally read instructions, and the like) and English language learners (use of word wall, visualizations, and the like) are included in <b>most</b> lesson plans.	General accommodations for diverse learners (e.g. extended time for assignments, guided notes, organizational tools, adaptive software and technologies, orally read instructions, and the like) and English language learners (use of word wall, visualizations, and the like) are included in <b>some</b> lesson plans.	General accommodations for diverse learners (e.g. extended time for assignments, guided notes, organizational tools, adaptive software and technologies, orally read instructions, and the like) and English language learners (use of word wall, visualizations, and the like) are <b>not included in most</b> lesson plans.

<p><b>Lesson Assessments</b>  (20% of total grade)</p>	<p>Assessments are well-constructed and are included for each lesson.</p> <p>Each formative and summative assessment item is <b>specifically aligned</b> to a stated objective.</p> <p>Specific end of unit test items are listed for summative assessments.</p> <p>Modified assessment items designed for English language learners and students with disabilities are included in <b>each</b> lesson plan.</p> <p>At least two authentic assessments including one rubric are included.</p> <p style="text-align: center;"><b>A</b></p>	<p>Assessments are well-constructed and included for each lesson.</p> <p>Each lesson contains a formative and summative assessment item that is aligned to a stated objective.</p> <p>Specific end of unit test items are listed for summative assessments.</p> <p>Modified assessment items designed for English language learners and students with disabilities are included in <b>most</b> lesson plans.</p> <p>At least two authentic assessments including one rubric are included. Rubric could be more specific to the science learning activity.</p>	<p>Assessments are included for each lesson. A <b>few</b> assessment items are <b>not aligned</b> to a stated objective.</p> <p>Additional formative or summative items could be included to enhance a lesson plan.</p> <p>Some of end of unit test items <b>are not listed</b> as summative assessments in lesson plans.</p> <p>Modified assessment items designed for English language learners and students with disabilities are included in <b>some</b> lesson plans.</p> <p>Rubric could be more specific to the science activity.</p>	<p><b>Many</b> assessment items are <b>not aligned</b> to stated objectives.</p> <p>Many additional formative or summative items could be included to enhance a lesson plan.</p> <p>Some of end of unit test items are not listed as summative assessments in lesson plans.</p> <p>Modified assessment items designed for English language learners and students with disabilities are included in <b>few</b> lesson plans.</p> <p>Authentic assessments can be significantly improved.</p>
<p><b>End-of-Unit Unit Assessment</b>  (10% of total grade)</p>	<p>A <b>well-developed</b> end-of unit summative assessment for the unit that incorporates a mixture of traditional assessment and non-traditional assessment items is included with an answer / scoring key. Items align well to the unit's lesson plan.</p> <p style="text-align: center;"><b>A</b></p>	<p>An end-of unit summative assessment for the unit that incorporates a mixture of traditional assessment and non-traditional assessment items is included with an answer / scoring key. Items align to the unit's lesson plan. A few items could be enhanced.</p>	<p>A end-of unit summative assessment for the unit that incorporates a mixture of traditional assessment and non-traditional assessment items are included with an answer / scoring key. Some items do not align to the unit's lesson plan. Many items could be enhanced.</p>	<p>A scoring key for the end of unit assessment is missing. Many items do not align to the unit's lesson plan. Many items could be significantly enhanced.</p>

<p><b>Modified End-of-Unit Unit Assessment</b>  (10% of total grade)</p>	<p>A well-developed modified end of the unit test with assessment items modified for English language learners and students with special needs. Answer / scoring key is included. Items align well to the unit's lesson plan.</p> <p style="text-align: center;">A</p>	<p>A modified end of the unit test with assessment items modified for English language learners and students with special needs. Answer / scoring key is included. Items align well to the unit's lesson plan. A few items could be enhanced.</p>	<p>A modified end of the unit test with assessment items modified for English language learners and students with special needs. Answer / scoring key is included. Some items do not align to the unit's lesson plan. Many items could be enhanced.</p>	<p>A scoring key for the modified end of unit assessment is missing. Many items do not align to the unit's lesson plans. Many items could be significantly enhanced.</p>
<p><b>Incorporation of Instructional Technology in Unit</b>  (5% of total grade)</p>	<p>At least <b>one lesson that incorporates instructional technology</b> into the unit (Web-facilitated activity, GIS, Google Earth, hand-held data collection probeware, Flash interactivity, etc.) is included. Provisions are made to ensure that students are <b>cognitively</b> engaged in activities.</p> <p style="text-align: center;">A</p>	<p>At least <b>one lesson that incorporates instructional technology</b> into the unit (Web-facilitated activity, GIS, Google Earth, hand-held data collection probeware, Flash interactivity, etc.) is included. Provisions are made to ensure that students are engaged in activities.</p>	<p>Instructional technology used in lesson is a lower cognitive activity such as an information-seeking or gathering activity (for example a Webquest).</p>	<p>Inappropriate or no technology applications or tools are implemented in the unit.</p>
<p><b>Standards and Frameworks Addressed</b>  (5% of total grade)</p>	<p>NSES and/or PA Science Standards are clearly articulated for each lesson. Appropriate standard(s) cited for each lesson.</p> <p style="text-align: center;">A</p>	<p>NSES and/or PA Science Standards are clearly articulated for most lessons. Appropriate standard(s) cited for each lesson.</p>	<p>NSES and/or PA Science Standards are clearly articulated for a few lessons. Appropriate standard(s) cited for most lessons.</p>	<p>NSES and/or PA Science Standards are not clearly articulated for each lesson. Only standard numbers are provided.</p>

TLT 426

Dr. Bodzin

This is an excellent unit! Outstanding work!

**Final Assessment: A**

TLT 426  
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