



WARNER SCIENCE LESSON PLAN RUBRIC

Candidate _____ Date _____

Subject Area _____ Grade Level _____

Title of unit (of which this lesson is a part) _____

Lesson Title _____

Lesson Plan Rubric – Part I

Lesson Components	(1) Unacceptable/ Insufficient	(2) Needs Improvement/Emerging	(3) Basic Proficiency	(4) Outstanding Performance	Score
1. Content Area	The content are identified is not predominant in the lesson.	The predominant content area of the lesson has been identified. In cases where connections have been made to other content areas, these links are vague or confusing.	The predominant content area has been identified. In cases where connections have been made to other content areas, these links are described in broad, general terms.	The predominant content area has been identified. In cases where connections have been made to other content areas, these links are well articulated and detailed.	
2. Purpose/Goals	The candidate has described what students will learn from the lesson, but the explanation about why the goals are important, how they relate to other areas of study, and the “big idea” of the lesson are absent or not well articulated.	<p>The candidate has described what the students will learn from the lesson by articulating its goals and why they are important.</p> <p>These goals are not articulated in relation to other areas of study, or these connections are unclear/confusing.</p> <p>The candidate has identified the “big idea”, but it is not clear how they will use it to engage students in meaningful learning, or help them to understand difficult ideas, or correct misconceptions.</p>	<p>The candidate has described what the students will learn from the lesson by describing its goals and why they are important.</p> <p>Other areas of study have been briefly mentioned and there is a brief articulation of their relationship to the goals of the lesson.</p> <p>The candidate has identified the “big idea”, but is not able to fully articulate how the lesson will engage students in meaningful learning, help them to understand difficult ideas, or correct misconceptions.</p>	<p>The candidate has clearly explained what the students will learn from the lesson by describing its goals and why they are important.</p> <p>These goals have also been articulated in relation other areas of study.</p> <p>The candidate has explained how the “big idea” of the lesson will engage students in meaningful learning, help them to understand difficult ideas, and correct misconceptions.</p>	

Lesson Components	(1) Unacceptable/ Insufficient	(2) Needs Improvement/Emerging	(3) Basic Proficiency	(4) Outstanding Performance	Score
3. Objectives	<p>Objectives are missing, unclear, or unrelated to standards.</p> <p>Objectives are inappropriate for the intended grade level, and are not likely to be accomplished by most students in the time allotted.</p>	<p>Objectives do not provide a clear sense of what students will know and be able to do as a result of the lesson.</p> <p>There is a weak relationship between the objectives and the learning standards, and/or some, but not all, are appropriate for the intended grade level.</p> <p>It is unlikely that the objectives will be accomplished by students in the time allotted.</p>	<p>Objectives provide a sense of what students will know and be able to do as a result of the lesson.</p> <p>There is some relationship between the objectives and the learning standards.</p> <p>Most of the objectives are appropriate for the intended grade level.</p> <p>Objectives are likely to be accomplished by most of the students in the time allotted.</p>	<p>Objectives provide a clear sense of what students will achieve as a result of the lesson.</p> <p>This section also clearly describes how students will demonstrate what they have learned.</p> <p>There is a strong relationship between the objectives and the learning standards.</p> <p>All of the objectives and activities are appropriate for the intended grade level.</p> <p>Objectives are likely to be accomplished by almost all students in the time allotted.</p>	
4. National and/or NYS Standards	<p>Specific national and/or State standards are not accurately presented or absent, and there is no mention of the ways they connect to the objectives of the lesson.</p>	<p>The national and/or NYS standards or performance indicators to be addressed in the lesson are mentioned in general terms.</p> <p>There is no explanation of the relationship between the standards and the objectives, or these connections have been written as a list.</p>	<p>The specific national and/or NYS standards or performance indicators to be addressed in the lesson are mentioned, but the explanation of their relationship to the objectives does not have a narrative quality.</p>	<p>The specific national and/or NYS standards or performance indicators to be addressed in the lesson are clearly identified, and their relationship to the objectives has been written as a narrative.</p>	

Lesson Components	(1) Unacceptable/ Insufficient	(2) Needs Improvement/Emerging	(3) Basic Proficiency	(4) Outstanding Performance	Score
5. Assessment	The suggested assessment strategies are unrelated to objectives and/or standards of the lesson.	<p>The methods and strategies to be used to measure student learning are only provided for the conclusion of the lesson.</p> <p>The candidate has made poor choices of examples of “evidence” of student learning.</p> <p>The connections between the assessment in the lesson and more summative assessments are absent or unclear, and it is not apparent that the candidate is able to make these connections.</p> <p>The candidate has not provided ideas about how the assessment in the lesson will inform instruction on an ongoing basis or these connections are not well developed</p>	<p>The methods and strategies for measuring student learning throughout the lesson and at its conclusion are clearly articulated.</p> <p>The candidate has provided several examples of what they will consider as “evidence” of student learning.</p> <p>The connections between the assessment in the lesson and more summative assessments are vague or underdeveloped, but it is clear that the candidate is able to make these connections.</p> <p>The candidate has provided a few ideas about how the assessment in the lesson will inform instruction on an ongoing basis.</p>	<p>The methods and strategies for measuring student learning throughout the lesson and at its conclusion are clearly articulated.</p> <p>The candidate has explained what they will consider as “evidence” of learning.</p> <p>The connections between the assessment in the lesson and more summative assessments are clearly articulated.</p> <p>The candidate has provided ideas about how the assessment in the lesson will inform instruction on an ongoing basis.</p>	
6. Community Knowledge and Experience	<p>The strategies for the recognition and incorporation of students’ knowledge and experiences are absent or vague.</p> <p>It is clear that the candidate does not understand what it means to view oneself as a “member of the learning community” in the classroom.</p>	<p>The ways in which the candidate will account for, or incorporate, students’ knowledge and experiences in the lesson have been described.</p> <p>It is not evident that the candidate understands what it means to be “a member of the learning community” in the classroom, and they are not able to talk about themselves as a learner in the classroom.</p>	<p>The ways in which the candidate will account for, or incorporate, students’ knowledge and experiences in the lesson have been described.</p> <p>It is evident that the candidate understands what it means to be “a member of the learning community” in the classroom, and s/he has described strategies/ideas for integrating their knowledge and experience into the lesson.</p>	<p>The ways in which the candidate will account for, or incorporate, students’ knowledge and experiences in the lesson have been clearly articulate.</p> <p>It is evident that the candidate understands what it means to be “a member of the learning community” in the classroom, and s/he has articulated the ways in which their knowledge and experience will be shared and included in the lesson.</p>	

Lesson Components	(1) Unacceptable/ Insufficient	(2) Needs Improvement/Emerging	(3) Basic Proficiency	(4) Outstanding Performance	Score
<p>7. Procedure</p>	<p>The candidate's description of the progression of the lesson, including how it will begin, end, and/or how they will transition between major components of the lesson is unclear or confusing.</p> <p>Most of the activities described in the lesson are not likely to help students achieve the objectives of the lesson.</p> <p>The examples of strategies that the candidate will use to alter the lesson if it does not go as planned are absent or inappropriate.</p> <p>The description of how s/he will maximize on-task student engagement within the learning environment is absent or inappropriate.*</p>	<p>The candidate has described all of the activities of the lesson, but it is not clear how the lesson will begin, end and/or how they will transition between major components of the lesson.</p> <p>Some of the activities described in the lesson are not likely to help students achieve the objectives of the lesson.</p> <p>The examples of strategies that the candidate will use to alter the lesson if it does not go as planned are absent or not likely to be successful.</p> <p>The description of how s/he will maximize on-task student engagement within the learning environment is lacking clarity and/or not likely to be successful.*</p>	<p>The candidate has described how the lesson will begin and end, and how they will transition between major components of the lesson.</p> <p>The activities described in the lesson begin to provide an explanation of how the students will achieve the objectives of the lesson.</p> <p>The candidate has provided a few examples of strategies that s/he will use to alter the lesson if it does not go as planned, some of which are not likely to be effective.</p> <p>The candidate has described some examples of how s/he will maximize on-task student engagement within the learning environment by identifying student boundaries and expectations, the physical components in the classroom (desks, distribution of materials), and the utilization of instructional time and support services (such as additional adults).*</p>	<p>The candidate has clearly articulated how the lesson will begin and end, and how they will transition between major components of the lesson.</p> <p>The activities described in the lesson provide an explanation of how the students will achieve the objectives of the lesson.</p> <p>The candidate has provided good examples of strategies that s/he will use to alter the lesson if it does not go as planned.</p> <p>The candidate has described how s/he will maximize on-task student engagement within the learning environment by articulating student boundaries and expectations, the physical components in the classroom (desks, distribution of materials), and the utilization of instructional time and support services (such as additional adults).*</p>	

Lesson Components	(1) Unacceptable/ Insufficient	(2) Needs Improvement/Emerging	(3) Basic Proficiency	(4) Outstanding Performance	Score
8. Resources	<p>No supporting materials are identified in the lesson plan, or these appear to be unrelated or irrelevant to the purposes of the lesson.</p> <p>There is no description of how resources will be used or distributed, or this description suggests strategies that are likely to result in chaos.</p>	<p>Supporting human and material resources have been identified, but their relevance to the lesson is unclear.</p> <p>The candidate has not described how the resources will be used or, when applicable, how they will be distributed.</p> <p>The resources do not appear to be critical to the lesson or are unnecessary and not likely to enhance learning.</p>	<p>Supporting human and material resources have been identified.</p> <p>The candidate has briefly described how these will be used to enhance learning and, when applicable, how they will be distributed.</p> <p>The resources are likely to enhance learning.</p>	<p>Supporting human and material resources have been identified.</p> <p>The candidate has clearly articulated how these will be used to enhance learning and, when applicable, how they will be distributed.</p> <p>The resources are likely to enhance learning significantly.</p>	
9. Applications Connections and Extensions	<p>Descriptions of how the lesson will help students apply, connect or extend their learning are poorly articulated, confusing or absent.</p>	<p>The candidate has described how she/he will help students apply what they have learned in the lesson, however, their suggestions do not make connections between the lesson and other topics, concepts or ideas, and are not likely to extend student learning beyond the classroom.</p>	<p>The candidate has described how she/he will help students apply what they have learned in the lesson.</p> <p>At least one of their ideas is designed to help students make connections between the lesson and other topics, concepts or ideas.</p> <p>At least one of their ideas is designed to help students extend their learning beyond the classroom.</p>	<p>The candidate has described creative and thoughtful ideas for how she/he will help students apply what they have learned in the lesson.</p> <p>Some of these ideas will help students make connections between the lesson and other topics, concepts or ideas.</p> <p>Several of these ideas have been designed to help students extend their learning beyond the classroom.</p>	

Lesson Components	(1) Unacceptable/ Insufficient	(2) Needs Improvement/Emerging	(3) Basic Proficiency	(4) Outstanding Performance	Score
10. Inclusive Instruction	<p>The lesson is not inclusive of all the students, and no differentiated activities have been suggested. It is not evident that the candidate has thought about how to address student diversity.</p>	<p>The candidate has described how the lesson will be inclusive of all students, but there is no explanation of how activities will be differentiated.</p> <p>The candidate understands, and can describe the ways in which diversity can be addressed in the lesson, but ideas/strategies to support inclusion are not apparent in the lesson.</p>	<p>The candidate has described how the lesson will be inclusive of all students. Some of the differentiated activities are interesting, and they have been integrated throughout the lesson.</p> <p>It is evident that the candidate has thought about how to address student diversity, but s/he is only able to recognize/account for a few characteristics in general ways.</p>	<p>The candidate has articulated how the lesson will be inclusive of all the students by describing strategies/activities that are creative and thoughtful.</p> <p>Differentiated activities are well integrated throughout the lesson, and likely to be interesting and challenging to students with special needs and abilities.</p> <p>It is evident that the candidate has thought about how to address student diversity, and the lesson includes an explanation of how the procedure will recognize/account for characteristics most apparent in the student population.</p>	
11. Personal Reflection	<p>In cases where the lesson has been taught, the candidate has not demonstrated her/his ability to reflect on the lesson, and is unable to identify strengths and limitations or insights about the things she/he has learned about their students and themselves.</p>	<p>In cases where the lesson has been taught, the candidate has demonstrated her/his ability to reflect on the lesson, but was unable to address efforts to construct a meaningful learning community.</p> <p>The candidate has identified the strengths and limitations of the lesson, but has not offered ideas about how it could be revised in the future.</p> <p>The candidate has mentioned some of the things they learned about their students and themselves, but these do not appear to be insightful or informed.</p>	<p>In cases where the lesson has been taught, the candidate has demonstrated her/his ability to reflect on the lesson, including their efforts to construct a meaningful learning community.</p> <p>The candidate has identified the strengths and limitations of the lesson, and has some general ideas about how it could be revised in the future.</p> <p>The candidate has identified insights they have learned about their students and themselves.</p>	<p>In cases where the lesson has been taught, the candidate has demonstrated her/his ability to reflect on the lesson, including their efforts to construct a meaningful learning community.</p> <p>The candidate has identified the strengths and limitations of the lesson, and has made suggestions for how it could be revised in the future.</p> <p>The candidate has identified insights they have learned about their students and themselves, and these demonstrate considerable thought and reflection.</p>	

Lesson Components	(1) Unacceptable/ Insufficient	(2) Needs Improvement/Emerging	(3) Basic Proficiency	(4) Outstanding Performance	Score
12. Safety	There is no description of the safety concerns and considerations that need to be made in this lesson and/or the description identifies strategies that are likely to put students in danger.	<p>Safety concerns and considerations were identified but lacked direct relevance to the classroom activity.</p> <p>Assessment of the safety concern was limited to student understanding or application of the safety procedures, but not both.</p>	<p>Safety concerns and considerations were identified.</p> <p>The candidate briefly articulated how s/he will assess student understanding and application of the safety procedures.</p>	<p>Safety concerns and considerations were identified with depth of relevance to the specific classroom activity.</p> <p>The candidate clearly articulated how s/he will assess student understanding and application of the safety procedures.</p>	



WARNER SCIENCE LESSON PLAN EVALUATION FORM

Candidate's Name _____ Evaluator's Name: _____
 Semester: _____ Course # _____

Part II: NSTA Standards for SCIENCE teacher candidates

Based on the written lesson plan submitted, evaluate the extent to which the candidate provided evidence of meeting the specific NSTA standards listed below, using the following rubrics:

- n/o: Not observable** - The topic, level or context for the lesson was not appropriate for providing evidence for this standard. *(Whenever this option is not acceptable – e.g., you must provide your assessment – we have indicated it by blackening the corresponding cell)*
- 1 Insufficient** – i.e., this standard was not met.
- 2 Emergent/needs improvement** – i.e., there is only partial evidence that this standard was addressed or the standard was only partially addressed; more evidence is needed before determining proficiency with respect to this standard.
- 3 Basic proficiency**– i.e., the lesson plan provide sufficient evidence of addressing this standard at least at a basic level
- 4 Outstanding performance** – i.e., the lesson plan provides a great example of addressing this standard.

NOTE: You should evaluate the candidate’s level of proficiency with respect to each standard AFTER having evaluated the candidate’s level of proficiency with respect to each dimension of that standard.

<i>NSTA Standards and Dimension:</i>	<i>n/o</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
3. Inquiry. Teachers of science engage students both in studies of various methods of scientific inquiry and in active learning through scientific inquiry. They encourage students, individually and collaboratively, to observe, ask questions, design inquiries, and collect and interpret data in order to develop concepts and relationships from empirical experiences. <i>To show that they are prepared to teach through inquiry, teachers of science must demonstrate that they:</i>					
(3a) understand the processes, tenets, and assumptions of multiple methods of inquiry leading to scientific knowledge;					
(3b) engage students successfully in developmentally appropriate inquiries that require them to develop concepts and relationships from their observations, data, and inferences in a scientific manner.					
6. Curriculum. Teachers of science plan and implement an active, coherent, and effective curriculum that is consistent with the goals and recommendations of the National Science Education Standards. They begin with the end in mind and effectively incorporate contemporary practices and resources into their planning and teaching. <i>To show that they are prepared to plan and implement an effective science curriculum, teachers of science must demonstrate that they:</i>					
(6a) understand the curricular recommendations of the National Science Education Standards, and can identify, access, and/or create resources and activities for science education that are consistent with the standards;					
(6b) plan and implement internally consistent units of study that address the diverse goals of the National Science Education Standards and the needs and abilities of students.					

<i>NSTA Standards and Dimension:</i>	<i>n/o</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
8. Assessment. Teachers of science construct and use effective assessment strategies to determine the backgrounds and achievements of learners and facilitate their intellectual, social, and personal development. They assess students fairly and equitably, and require that students engage in ongoing self-assessment. To show that they are prepared to use assessment effectively, teachers of science must demonstrate that they:					
(8a) use multiple assessment tools and strategies to achieve important goals for instruction that are aligned with methods of instruction and the needs of students;					
(8b) use the results of multiple assessments to guide and modify instruction, the classroom environment, or the assessment process;					
(8c) use the results of assessments as vehicles for students to analyze their own learning, engaging students in reflective self-analysis of their own work.					