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| ***Secondary Science Methods* Rubric for Assignment 5 – Lesson with Lab/ History**  **Total of 100 points** | | | | |
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| **Subarea Score \***  **(with NSTA standards)** | **Unacceptable** | **Acceptable** | **Competent** | **Exemplary** |
| 1. **1.** Illustrative lab lesson plan   *NSTA Standards 3a, 3b, 5a, 5b, 5c, 6a and 6b* | 0-4 Plan illustrating a science concept lacked detail and/or did not include safety or handout descriptions | 5-6 Wrote a plan to illustrate a science concept including some safety aspects and handouts | 7-8 Wrote a detailed plan to illustrate a science concept including safety aspects and handouts | 9-10 Wrote a thorough and detailed plan to illustrate a science concept including safety aspects and handouts |
| 1. **2.** Investigative lab lesson plan   *NSTA Standards 3a, 3b, 5a, 5b, 5c, 6a and 6b* | 0-4 Plan investigat-ing a science concept lacked detail and/or did not include safety or handout descriptions | 5-6 Wrote a plan to investigate a science concept including some safety aspects and handouts | 7-8 Wrote a detailed plan to investigate a science concept including safety aspects and handouts | 9-10 Wrote a thorough and detailed plan to investigate a science concept including safety aspects and handouts |
| **A. 3.** Detailed list of materials | 0-2 There was no list or it lacked sufficient details for each type of lab | 3 A list of materials was included for each type of lab but overlooked some necessary items | 4 A list of necessary materials was included for each type of lab | 5 A detailed list of necessary materials was included for each type of lab |
| **A. 4.** Safety plan and disposal procedures  *NSTA Standards 5f, 9a, 9b, 9c and 9d* | 0-4 The safety plan was inadequate and/or did not include student instructions and/or disposal procedures | 5-6 The safety plan included some supplies, student instruction for their use and disposal procedures as necessary | 7-8 The safety plan included most supplies, student instruction for their use and disposal procedures as necessary | 9-10 The safety plan thoroughly included supplies, student instruction for their use and disposal procedures as necessary |
| **A.5.** Plan for field work  *NSTA Standards 3a, 3b, 5f, 7a, 7b, 9a, 9b, 9c and 9d* | 0-12 There was no field work planned and/or it was unrelated to the other labs and/or did not incorporate safety aspects | 13-15 A plan for field work was included that discussed what would be done | 16-18A plan for field work (related to other labs) was included that discussed what would be done & included a safe plan for students with instruction about collecting in the field | 19-20 A plan for field work (related to other labs) was included that thoroughly discussed what would be done and included a safe plan for students with instruction about collecting in the field |
| **A.6.** Spelling and grammar | 0-2 There were more than two spelling or grammatical errors | 3 There were two spelling or grammatical errors | 4 There was one spelling or grammatical error | 5 There were no observed spelling or grammatical errors |
| **B.1.** Explained importance of lab curricula  *NSTA Standards 2a and 2b* | 0-4 Did not explain the importance of lab courses in science curricula | 5-6 Somewhat explained the importance of lab courses in science curricula | 7-8 Explained the importance of lab courses in science curricula | 9-10 Thoroughly explained the importance of lab courses in science curricula |
| **B.1.** Identified historical “turning point” and discussed it  *NSTA Standards 2a and 2b* | 0-4 Did not identify the historical point nor discussed it lasting effects | 5-6 Correctly identified the historical point (launching of Russian spacecraft *Sputnik*) | 7-8 Correctly identified the historical point and wrote an explanation of its lasting effects | 9-10 Correctly identified the historical point and wrote a thorough explanation of its lasting effects in the US |
| **B.2.** References for lab ideas  *NSTA Standards 3a and 3b* | 0-12 There are not ten annotated bibliographies and/or parts of a-e were lacking | 13-15 Ten annotated bibliographies include descriptions of the article and somewhat follow parts a-e | 16-18 Ten annotated bibliographies include descriptions of the article and mostly follow parts a-e | 19-20 Ten annotated bibliographies include thorough descriptions of the article and thoroughly follow parts a-e |

\*The acceptable level is the minimum allowed score.