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| Topic | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **Emerging** |  |  | **Developing** |  |  | **Proficient** |  |  | **Sophisticated** |  | |  | | | | | | | | | | | | |  | | |  | | |  | | |  | | | | | | |
| Safety | Limited understanding of lab safety protocols and precautions, may disregard safety | Aware of lab safety protocols and precautions with attention to personal responsibility | Consistently follows lab safety protocols with attention to group responsibility | Applies safety principles in lab safety with attention to class responsibility |
| Use of correct equipment | Limited knowledge of lab equipment choices and usage.  Not appropriate use. | Selects appropriate lab equipment for the task, with occasional mistakes. | Demonstrates proficiency in lab equipment selection and use. | Optimizes equipment selection and use, for best performance |
| Set up, tear down, and clean up | Unclear or incorrect set up, may skip steps, doesn’t clean up lab area, equipment not put away. Chemicals may be disposed of incorrectly. | Incomplete or inconsistent set up or tear down. Lab equipment may not cleaned properly or put away in incorrect places. | Executes all tasks correctly with minimal supervision. | Efficiently and systematically sets up, tears down and cleans up lab area. Often will make sure the greater lab area is cleaned up and organized. |
| Precision and Accurate Measurement | Lacks precision and accuracy in lab measurements. Doesn’t understand how to use the measurement tool correctly. | Inconsistencies in precision and accuracies during lab measurements or measurement errors. | Consistently achieves precise and accurate lab measurements. Uses lab measuring equipment appropriately. | Expertly measures lab data with low error and high precision and accuracy. |
| Critical Thinking | Rarely applies critical thinking skills, limited problem-solving in lab experiments | Applies critical thinking skills but struggles with complex components of the lab. | Applies critical thinking skills in the lab for problem-solving and decision-making. | Consistently applies advanced critical thinking skills to complex lab scenarios |
| Ability to follow procedures | Difficulty following lab procedures and may deviate from established lab processes. Often doesn’t read procedures and makes errors. Asks for reassurance constantly. | Follows most lab procedures, but still requires frequent guidance. Listens to instructions. | Follows lab procedures accurately and consistently, with minimal supervision | Efficiently and effectively follows lab procedures with little or no supervision |

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