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| **Scientific Literacy**  Students will be able to identify questions, analyze phenomena, evaluate evidence, scrutinize assumptions, and draw evidence-based conclusions.  *Select the level that most closely aligns with a student’s performance on the aligned assessment(s).* | | | | |
| **No Assessment (0)** | **Emerging (1)** | **Developing (2)** | **Competent (3)** | **Proficient (4)** |
| Select this option if the student:   * **Failed to submit** the aligned assessment for this outcome. * **Withdrew** from the course (W). * **Audited** the course (AU). * **Did not complete** the course (I). * **Violated academic integrity** on the aligned assessment (XF). | The student has difficulty:   * Differentiating between scientific theory and belief. * Recognizing the process of scientific enquiry. * Drawing evidence based conclusions. * Generating hypothesis to test a theory based on observations. | The student can:   * Differentiate between scientific theory and belief. * Recognize the process of scientific enquiry. * Draw evidence-based conclusions on observations. * Demonstrate content knowledge of existing scientific theories. | The student competently:   * Draw reasonable conclusions based on *experimental* evidence and logic. * Apply the process of the scientific inquiry to solve problems. * Apply content knowledge of existing scientific theories to solve problems. | The student effectively:   * Uses the process of scientific inquiry to generate original hypotheses to test a theory based on observations. * Draw reasonable conclusions based on evidence and logic. * Applies the logic of scientific inquiry to solve real world scientific problems. |