Biology
Timeline: Week 1-3

Biological Methods
Timeframe: 15 days

Essential Question	Key Concept	Objectives	Activities	Teaching Tips	Options	PASS	Resources	Assessment
How are scientific investigations different from other investigations	Scientists use processes for testing, organizing, and understanding information related to the world around them.	Identify the independent variables, dependent variables, and control setup in simulated and actual biology experiments. Formulate a feasible hypothesis for a given problem in simulated and actual biology investigations. Predict possible trends in experimental data based on previous analysis of actual, simulated, or graphical data. Suggest extended experimental studies based on data analysis of actual or simulated data. Recognize potential hazards and practice safe procedures in all biology activities Correctly identify pertinent biology lab equipment and correlate it to its appropriate function. Identify and use quantitative and qualitative observations and changes. Use observable properties to classify and create a classification system based on observations.	**Exploration**: A-Mystery Boxes B-Measurement: Bones/Height **Concept Invention:** -Scaffolded Questions **Expansion:** -Radish Seed Inquiry -Agassiz reading	Note: These objectives should be incorporated into the units that follow where found to be most appropriate. **Vocabulary**: -control -data -dependent variable -experiment -hypothesis -independent variable -scientific methods	**Exploration:** A-Fortune Telling Fish A-Fish Observation (Agassiz) A-Mellinark Classification **Expansion:** -How to Write a Lab Report -Scientific Drawing -Experimental Redo (BW) -Sponge Bob (HW) -Birdsong Trilogy Reading (High) -Graphing Practice (LTF) -What is Science (High) -Walter Reed Reading -Text Reading 1.2-1.3 with 2 Column Notes	**PS** 1.1, 1.2, 1.3, 3.2, 3.4, 3.5, **4.1**, 4.2, **4.3**, 4.4, **4.5**, 4.6, **4.8**, 6.1, 6.2 **CS** None	Adopted Text-Glencoe Science: Biology The Dynamics of Life (2005) Chapter 1 NPS Teacher's Guide	**Writing Prompt:** **Formative:** **Summative:** BT Corn Virtual Lab