5 E Lesson Plan Template — Science

Teacher: H. High **Grade:** 3rd **Date(s):** 4/22/19

Big Idea / Essential Question: Interpret and Analyze Data

Performance Expectation: I can create a frequency table on my data.

Vocabulary:
frequency
data
record
analyze

Engage: strategy -
Video showing how to create their frequency table.

Extend: strategy -
Create a hypothesis to test next time on the difference in frequency if other food is used.

Instructional Materials and Resources:
Norbert (our bearded dragon)
worms
Science Lab notebook
Pencil

Explore: (group / partner / individual) strategy -
Students will count the amount of worms that Norbert eats at one sitting each day for 5 days.

Science Practices: (highlight)
SP1. Asking questions and defining problems
SP2. Developing and using models
SP3. Planning and carrying out investigations
SP4. Analyzing and interpreting data
SP5. Using mathematics and computational thinking
SP6. Constructing explanations / designing solutions
SP7. Engaging in argument from evidence
SP8. Obtaining, evaluating, and communicating info

Explain (Student): (partner / individual) strategy -
Students will create a frequency table based on the data they collected.

Crosscutting Concepts: (highlight)
CC1. Patterns
CC2. Cause and effect: Mechanism and explanation.
CC3. Scale, proportion, and quantity.
CC4. Systems and system models.
CC5. Energy/matter: Flows, cycles, & conservation.
CC6. Structure and function.
CC7. Stability and change.

Elaboration (Teacher): strategy -
We will look up another reptile and compare the frequency of how much they typically eat a day to what Norbert ate.

Differentiated Instruction:
Students with IEP's will fill in a graph already created for them.

Evaluate: (Formative / Summative Assessment) strategy -
Answer questions where they must interpret the data they collected.