STEMS² Lesson Plan Kilo to Wonder Lesson 3

Jaime Lewis 2023

Lesson Objective(s):

K-2-SEP4.1: Record information (observations, thoughts, and ideas).

K-2-SEP4.2: Use and share pictures, drawings, and/or writings of observations.

K-2-SEP4.3: Use observations (firsthand or from media) to describe patterns and/or relationships in the natural and designed world(s) in order to answer scientific questions and solve problems.

Inquiry Standard SS.K-2.1.2: Construct supporting questions to help answer compelling questions with guidance from adults and/or peers

Inquiry Standard SS.K-2.2.1: Determine whether a source is primarily fact or opinion

Inquiry Standard SS.K-2.2.3: Gather facts from teacher and/or adult-curated sources to answer questions

1MD2: Tell and write the time

1MD3: Represent and interpret data.

Lesson Launch Notes:

Kilo phenomenon

T	Accon	Closure	Notes.

Checklist for share partners/Formative

	Plan	has	а	clear	wonder	question
--	------	-----	---	-------	--------	----------

☐ Plan has atleast 1 resource for answering chosen, such as books, ask a knowledgable adult

Lesson Tasks, Problems, and Activities (attach resource sheets if needed):

Learning Goals: Student-Level Explanations	Lesson Activities and Steps to Learning to meet the Goals	Est. Time 60 min
Lesson 3 Asking and Answering questions with a Research Plan	Kilo a phenomenon In partners: Ask-What does it mean to wonder?	5 min
"I Wonder": Asking questions	Develop a definition for wonder	
about the	KWL Chart: here is a possible handout or this one	15 min

	<u> </u>	
phenomenon or problem that I found is a good way to learn more about it.	blem that I found phenomenon or problem. They will now have an opportunity to use a common graphic organizer tool to	
Thinking about best ways to answer my questions helps me identify good resources	Ask: Where can we find answers to our "I Wonder" questions? Books Our teacher A trusted adult A scientist	5 min
Creating a good research plan helps me organize how I	More kilo Create a research plan: handout option	10 min
will find answers to my questions.	Ask a "I Wonder" question (think, can I find the answer to this?) Identify Resources (think, where can I find the	
Finding answers to my questions helps me become an expert about my phenomenon or	 answer to my question/s) 3. Find answers to my questions in my resources identified (think, did this answer my wonder question) 4. Organize my information (think, how do I want to tell 	
problem and helps to explain or	others about what I learned)	20 min
problem solve it.	 Begin Research: Students look for books in class Make a list of possible topics to ask librarian to help find, if appropriate internet search Make a plan to ask our Community Partner, Scientist Sarah or other expert Kilo 	
	Share plan with a partner	5 min

Evidence of Success:

Students have created a research plan, with a clear wonder question and at least one possible source of information to find an answer to their wonder question

Notes and Nuances:

Students of this age have a tendency to ask questions they already know the answer to. Be sure to check in and make sure their questions are ones that they need to do a little something more to find answers to them.

Resources:

Research plan foldable

Homework:

None

Lesson Reflections (if applicable):

In this lesson, I noticed that many of the students asked questions that they clearly had some knowledge about. Many did not ask completely new questions that drove curiosity. For the following lesson I engaged them in a fun "20 questions" game to try and support the understanding that when you wonder, you don't have alot of information about the possible answers. That when we wonder we are curious and need to do an action to find the answer, such as find a book that could tell me the answer or ask and expert.