Questioning Inquiry Unit

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Class: Boise State Science Writing Institute

Essential Quest	Reflection(How does your EQ demonstrate the qualities of effective EQs? i.e. pique interest, have real-world relevancy)My EQ demonstrates the qualities of effective EQ's because it piques interest by relating to real-world relevancy. We are constantly asking questions in everyday situations to help us make sense of things.Reflection	
How do our observations help us form questions and		
Procedural Knowledge (PK)	Conceptual Knowledge (CK) & Practices	(Provide a rationale for your grouping of standards and objectives for this unit)
 A. <u>CCSS.ELA-Literacy.RL.4.1</u> Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text. B. <u>CCSS.ELA-Literacy.RL.4.2</u> Determine a theme of a story, drama, or poem from details in the text; summarize the text. C. <u>CCSS.ELA-Literacy.RL.4.3</u> Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text (e.g., a character's thoughts, words, or actions). D. <u>CCSS.ELA-Literacy.W.4.9</u> Draw evidence from literary or informational texts to support analysis, reflection, and research. E. <u>CCSS.ELA-Literacy.W.4.9.a</u> Apply grade 4 Reading standards to literature (e.g., "Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text [e.g., a character's thoughts, words, or actions]."). F. <u>CCSS.ELA-Literacy.W.4.9.a</u> Apply grade 4 Reading standards to literature (e.g., "Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text [e.g., a character's thoughts, words, or actions]."). F. <u>CCSS.ELA-Literacy.W.4.9.b</u> Apply grade 4 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text"). G. <u>Idaho State Science Standards</u> In the fourth grade performance expectations, students are expected to demonstrate grade-appropriate proficiency in asking questions, developing and using models, planning and carrying out investigations, 	 A. students will understand the importance of different levels of questioning B. students will be able to distinguish between basic comprehension questions and higher level thinking questions C. students will learn to look beyond written text to find the "story outside the story" D. students will be able to distinguish between "on the lines" details and "between the lines" inferences (distinguishing between explicit text and inferential text) E. Practice: Asking questions and defining problems F. Practice: Analyzing and interpreting data G. Practice: Obtaining, evaluating, and communicating information 	The goal of this inquiry unit is to set my students up for a school year of higher level questioning. The questioning will come from me as their teacher, but the hope is that by focusing on higher level thinking skills, students will do more of this on their own as well. My hope is that the process of decomposing data and putting it back together again in a new way will be something they are excited to do because they see the application to everyday life. Common core standards focus mostly on making inferences from various texts. They also ask students to analyze, reflect, and explain. My students need this unit to show them the difference between "reading on the lines" (explicit text) and "reading between the lines" (inferential text.)

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analyzing and interpreting data, constructing explanations and solutions, engaging in argument from evidence, and obtaining evaluating, and communicating information. Students are exp use these practices to demonstrate understanding of the core	g, ected to		Reflection (How will your frontloading activity work
	to create genuine interest and relevancy for the work this unit will require?)		
 Tell students I'm going to show them how good I am at play www.dan-dare.org/FreeFun/Games/More/NewMarioFlash get frustrated, tell them I have a pet and the pets in this gat When they try to give hints, tell them I don't need to figure more, stop and connect my errors to me not asking question dying? Are pets in Mario Brothers the same in real life? Ar what this example could possibly have to do with them as s questions that need to be answered to figure out new thing Show students Austin's Butterfly: Building Excellence in Stu saw, how questions were asked to make the butterfly better getting students to see the power of observations and questions 	My frontloading activities should help my students see the relevancy of questions. I hope they see that questioning is not a scary thing. It's not something we only do at school when we're answering test questions. It's something we do all day long in order to make sense of our world.		
getting students to see the power of observations and questioning to figure out problems. Scaffold of Activities			Reflection (Provide a rationale for your sequence of activities, including how you will allow for the practice and revision of skills and which activities will serve as formative assessment and what they will measure.)
Activities	Connection to which PK and CK	Formative Assessment	
DBI of photos (group workscaffold easy to difficult)	 have students make observations ONLY at first Introduce types of questions that can be asked based on initial observations. talk about why asking questions is so important use observations to then introduce the idea of making inferences based on explicit details 	 students should be making observations, talking with partner groups, and offering ideas and opinions to class discussion 	My activities are scaffolded to provide multiple opportunities for students to become confident in questioning. The activities begin with pure observation, and slowly move into questioning and making inferences. Activities build upon each other and use repeated practice to help students automatically move through the inquiry process. There is also analysis and synthesis built into this unit, which I'm hoping will be natural after
 Read <u>Cat and Fish</u> by Neil Curtis <u>https://youtu.be/dD8Ftg2T7kU</u> (mute sound before reading, and pause when making observations and discussing inferences) 	 use this as an initial text introduction. as the story is read, ask students what they notice from the written words, and 	 students should be making observations, talking with partner groups, and offering ideas and opinions to class discussion 	moving through the prior steps so much.

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	then have them look at the	
	pictures and share	
	"inferences" that can be	
	made	
• Read <u>Journey</u> by Aaron Becker as a class	 use an anchor chart to make explicit observations (single color, document pages) and ask questions Use another color on the same anchor chart to make inferences based on the explicit observations 	 students should be making observations, talking with partner groups, and offering ideas and opinions to class discussion
Show short film, "Take Me Home" (3 MIN)	• Tell students their job is to	 students should be making
https://vimeo.com/72922772	just make observations	observations, talking with
	during the videowhat do they see and what do they	partner groups, and offering ideas and opinions to class
	wonder?	discussion
	• use a note catcher as a class	 students will be completing
	Brainstorm a list of	a note-catcher with
	observations	observations, questions and inferences.
	 Brainstorm a list of questions. 	interences.
	 Brainstorm a list of 	
	inferences based on explicit	
	details list	
 Show short film, "Stray" (5 MIN) https://vimeo.com/55791061 	 Tell students their job is to just make observations 	 students should be making observations, talking with
-What connections can we make	during the videowhat do	partner groups, and offering
between "Stray" and "Take Me	they see and what do they	ideas and opinions to class
Home"?	wonder?	discussion
	 Use a note catcher for partners to make 	 students will be completing a note-catcher with
	observations about explicit	observations, questions and
	and inferential details.	inferences.
	Brainstorm a list of	
	observations	
	Brainstorm a list of	
	questions.	

 Inference Poetry DBI (group work) Highlight explicit details Annotate the inferential details derived from explicit details "Emotion Inference" skits Students will work together in groups to come up w a short skit that leaves a character with an emotion a the end. The rest of the class has to "infer" which emotion the character is conveying, and back up the "inference" with "explicit details" from the skit. 	t different emotion they need to portray in their skit	 group participation highlighted and annotated poems group participation skits that give enough information for the class to make inferences class discussion 	
Culminating Projects		Reflection (How will your CP allow students to express their new understandings related to the EQ, act as a measure of Summative Assessment, and provide for real-world publication?)	
Project Description	Sequence for Project	Summative Assessment(s)	
 Group anchor chart on process of moving from "on the lines" to "between the lines" 	 Review strategies for identifying "on the line" details to "between the lines" inferences students will then make anchor charts to show what they know Students can refer back to items used in unit activities. 	 completed anchor charts that can be shared with the class students will walk the walls to view other groups' work students will make positive comments and ask clarifying questions 	The culminating projects are scaffolded so students will have the support of their peers for the initial anchor chart project. This project should serve as a good review for all students to solidify the process of understanding explicit details, asking questions, and forming inferences. The second project will require
2. "Birds on a Wire" thought bubbles as groups <u>https://www.youtube.com/watch?v=k2PJ6T7U2eU</u>	 Show the short film to the class have students get in groups and come up with thought bubbles for each scene students will put their thought bubbles up in front of the class discuss as a class the similarities and differences between group presentations 	 students will have thought bubbles that fit logically with the short film students will work together cooperatively by giving input and using good listening skills 	students to apply what they have learned to a new activity. They will need to work together, agree on inferences, and be able to present their ideas in a clear way. The final project will be an individual assessment to check mastery. Each student will be turning in a note- catcher to show they understand the process that leads up to inference.