

### **Question Redesign:**

Original Question: What stands out to you about this figure?

Redesign #1: What interests you about this figure?

Redesign #2: Is there a way that you would present the results differently? What do you like or dislike about the choices these authors made?

Original Question: What are the most important results in this study?

Redesign #1: From your experience, what do you find interesting or unsurprising about the results in this study?

Redesign #2: What do you think the authors are emphasizing from their results and why?

Original Question: What were the motivations behind this work?

Redesign #1: From your experience, why would (or wouldn't) you be interested in the data here?

Redesign #2: What do you think the authors were hoping to understand from this study? Do you think they were successful?

Reflection:

For me, the purpose of developing strategic questions is to shift the narrative in my classroom and in science away from the idea that there are right and wrong answers. Often, when interpreting real data, there's a lot of different possibilities, and the author's interpretations are just one of them. But as we move forward in science, the possibility the author emphasizes becomes what we think of as a fact. I think it's important to continue to emphasize that there is more than one way of looking at results, and that perspective is important when answering scientific questions. Redesigning the typical questions asked in the classroom is a way to slowly shift my thinking and my students thinking.