

Summary of formative assessment strategies.

Lesson Phase	Guiding Questions	Formative Assessment Tasks
Engage	<p>Pre-assessment:</p> <ol style="list-style-type: none"> 1. What do you think makes something a model in science? 2. Why do you think scientists use models in their work? 3. How do you think scientists developed models of the solar system? 4. Draw a sketch and describe what you think a model of the solar system looks like. <p>For students needing a little more guidance "A model is _____. Scientists use models to _____ and scientists develop models by _____. I think a model of the solar system looks like: (leave drawing space)."</p> <p>Introduction to lesson:</p> <ol style="list-style-type: none"> 1. What do you notice about these different models of the solar system? 2. How does your solar system model compare to the models presented in these pictures? 	<p>Entrance slip</p> <p>Guided discussion</p>
Explore	No questions but provide directions on what to focus on while constructing	Individual solar system sentence-strip model using folding technique.
Explain	<p>Initial discussion:</p> <ol style="list-style-type: none"> 1. What do you notice about the planets in this solar system model? 2. How does this model of the solar system compare to the pictorial models presented earlier? 3. Is this solar system model different from the one you originally drew and if so, how? 4. Do you see any problems with this new model? <p>Final discussion:</p> <ol style="list-style-type: none"> 1. In what ways do you think this process of redesigning our model is similar to what scientists do with models? 2. What could we do with these measurements we have to help us make a more accurate model of the Solar System? 	Guided discussion
Elaborate	<ol style="list-style-type: none"> 1. How does this last model compare to the previous models you have created and observed? 2. In what ways is this last model more helpful than the other models? 3. Like our other attempts at constructing a model of the solar system, do you think this model will ever change? If so, why? If not, why not? 	<p>Creation of a properly scaled solar system model on sentence strip.</p> <p>Comparing other solar system models to the more correct model created in this phase.</p>