

## Summary of formative assessment strategies.

Lesson Phase	Guiding Questions	Formative Assessment Tasks
Engage	<p>Pre-assessment:</p> <ol style="list-style-type: none"> <li>1. What do you think makes something a model in science?</li> <li>2. Why do you think scientists use models in their work?</li> <li>3. How do you think scientists developed models of the solar system?</li> <li>4. Draw a sketch and describe what you think a model of the solar system looks like.</li> </ol> <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"> <li>1. What do you notice about these different models of the solar system?</li> <li>2. How does your solar system model compare to the models presented in these pictures?</li> </ol>	<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"> <li>1. What do you notice about the planets in this solar system model?</li> <li>2. How does this model of the solar system compare to the pictorial models presented earlier?</li> <li>3. Is this solar system model different from the one you originally drew and if so, how?</li> <li>4. Do you see any problems with this new model?</li> </ol> <p>Final discussion:</p> <ol style="list-style-type: none"> <li>1. In what ways do you think this process of redesigning our model is similar to what scientists do with models?</li> <li>2. What could we do with these measurements we have to help us make a more accurate model of the Solar System?</li> </ol>	Guided discussion
Elaborate	<ol style="list-style-type: none"> <li>1. How does this last model compare to the previous models you have created and observed?</li> <li>2. In what ways is this last model more helpful than the other models?</li> <li>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?</li> </ol>	<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>