

Rubric for Modeling Side A

Components	Category			Feedback
	Missing	Developing	Mastered	
Clearly represents or describes the system components and must include:				
<ul style="list-style-type: none"> Some source of light on Side A and arrows representing how light travels from the source. (no bending at water line or in the water) 				
<ul style="list-style-type: none"> The surface structures (e.g., smooth or bumpy) or the dolphin and walls of the tank. 				
<ul style="list-style-type: none"> the path and direction of light from the source (e.g., sun, aquarium lighting) after reaching other objects (using a solid arrow or the agreed upon representation for All Light and the dashed model for reflected and transmitted light). 				
Interactions Between Components	Category			Feedback
	Missing	Developing	Mastered	
Clearly represents or describes the following:				
<ul style="list-style-type: none"> the interaction of light with the dolphin, including how light travels from the light source on Side A to the dolphin, what happens at the dolphin's body based on the <u>structure</u> (bumpy surface = scatters), and then the path light travels away from the person. 				
<ul style="list-style-type: none"> the interaction of light between the dolphin and the one-way mirror, including how light travels from the dolphin to the one-way mirror, what happens at the mirror based on the mirror's smooth <u>structure</u>, and then, the path light travels away from the mirror back to the dolphin. <ul style="list-style-type: none"> Students can also include transmission of some light through the one-way mirror, though it is not necessary to have a sufficient explanation. 				