

**RATE YOURSELF!**

How did you perform during the *Research Quest*? What could you do better next time?

	NEEDS IMPROVEMENT	OK	VERY GOOD!
<p><b>GATHERING DATA</b> <i>Strong observations are detailed and often include comparing and contrasting objects or events.</i></p>	<p>I identified objects by name or stated an opinion. I did not include details and descriptions drawn from the senses (for example: look and feel).</p>	<p>I made sense-based observations (for example: look and feel) but the observations were not detailed. I asked questions that could be answered through scientific investigation.</p>	<p>I made detailed, sense-based observations that include attention to similarities and differences between other objects and/or events. I asked questions that could be answered through scientific investigation.</p>
<p><b>MAKING INFERENCES</b> <i>Inferences are ideas based on evidence and reason.</i></p>	<p>I came up with ideas, but I did not think about whether or not they were based on evidence.</p>	<p>I came up with ideas based on evidence gathered during the investigation, but I'm not sure how strong the evidence was for my ideas.</p>	<p>I came up with an idea by considering all the evidence we gathered and weighing weak and strong evidence to arrive at the best explanation.</p>
<p><b>BUILDING AN EXPLANATION</b> <i>Use disconfirming evidence to eliminate explanations, and then choose the idea that is supported by the strongest available evidence.</i></p>	<p>I came up with my explanation early in the investigation. I felt sure about my idea, so I didn't wait to see all the evidence before I decided it was right.</p>	<p>I waited to form an explanation until we gathered all our evidence. However, I did not identify and weigh each piece of evidence as weak or strong for my explanation.</p>	<p>I kept my mind open about all possibilities until all evidence had been gathered. I evaluated each piece of evidence as weak or strong and I chose my explanation based on which idea had the strongest evidence.</p>
<p><b>VERBAL COMMUNICATION</b> <i>Communicating with and listening to peers can help everyone learn more than they would on their own.</i></p>	<p>I did not participate in communicating my observations, ideas and inferences. I have not been an attentive listener to others in my class or group.</p>	<p>I communicated some of my thinking out loud but I withheld some of my ideas. I sometimes interrupted my partner or group members before they finished communicating their ideas. During collaboration, I sometimes repeated my own ideas without responding directly or building on my partner's/group's ideas.</p>	<p>I communicated by thinking out loud. I let others speak without interrupting them. During collaboration, I responded directly to others and tried to build on my partner's/group's ideas.</p>