

## Costa's Levels of Thinking and Questioning

<i>Content-Specific Question Stems: Science</i>		
<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>
<ul style="list-style-type: none"> <li>- What information is given?</li> <li>- What are you being asked to find?</li> <li>- What formula would you use in this problem?</li> <li>- What does _____ mean?</li> <li>- What is the formula for...?</li> <li>- List the...</li> <li>- Name the...</li> <li>- Where did...?</li> <li>- What is...?</li> <li>- When did...</li> <li>- Describe in your own words what _____ means</li> <li>- What science concepts does this problem connect to?</li> <li>- Draw a diagram of...</li> <li>- Illustrate how _____ works.</li> </ul>	<ul style="list-style-type: none"> <li>- What additional information is needed to solve this problem?</li> <li>- Can you see other relationships that will help you find this information?</li> <li>- How can you put your data in graphic form?</li> <li>- How would you change your procedures to get better results?</li> <li>- What method would you use to...</li> <li>- Compare and contrast _____ to _____</li> <li>- Which errors most affected your results?</li> <li>- What were some sources of variability?</li> <li>- How do your conclusions support your hypothesis?</li> <li>- What prior research/formulas support your conclusions?</li> <li>- How else could you account for...?</li> <li>- Explain the concept of...</li> <li>- Give me an example of...</li> </ul>	<ul style="list-style-type: none"> <li>- Design a lab to show...</li> <li>- Predict what will happen to _____ as _____ is changed</li> <li>- Using a science principle of, how can we find ...?</li> <li>- Describe the events that might occur if...</li> <li>- Design a scenario for...</li> <li>- Pretend you are _____. What would the world be like if...</li> <li>- What would happen to _____ if _____ variable were increased/decreased?</li> <li>- How would repeated trials affect your data?</li> <li>- What significance is this experiment to the subject you're learning?</li> <li>- What type of evidence is most compelling to you?</li> <li>- Do you feel _____ experiment is ethical?</li> <li>- Are your results biased?</li> </ul>