

Costa's Levels of Questioning

NATURAL SCIENCES

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

RESOURCE ACKNOWLEDGMENT:

<http://www.d300.org>