

Costa's Levels of Thinking and Questioning: **Science**

LEVEL 2

- Cience

- What information is given? What are you being asked to find? What formula would you use in
- What does _____mean?
- What is the formula for...?
- List the...

LEVEL 1

- Name the...
- Where did...?

this problem?

- 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.

- 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...

LEVEL 3

- Design a lab to show...
- Predict what will happen to _____
 as _____ is changed.
- Using a science principle, 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?