Level 1

Remember:

Define
Repeat
Name
List
State
Describe
Recall
Memorize
Label
Match
Identify
Record

Show

Understanding:

Give examples

Restate
Discuss
Express
Rewrite
Recognize
Explain
Report
Review

Find Paraphrase

Locate

Tell

Extend Summarize Generalize

Level 2

Use Understanding:

Dramatize Practice Operate **Imply** Apply Use Compute Schedule Relate Illustrate Translate Change Pretend Discover Solve Interpret Prepare Demonstrate

Infer

Examine:

Diagram
Distinguish
Compare
Contrast
Divide
Question
Inventory
Categorize
Outline
Debate
Analyze
Differentiate
Select

Select Separate Point out Criticize Experiment Break down Discriminate

Create:

Compose Design Propose Combine Construct Draw Arrange Formulate Organize Compile Revise Write Devise Modify Assemble Prepare Generate

Level 3

Decide:

Judge
Value
Predict
Evaluate
Rate
Justify
Decide
Measure
Choose
Assess
Select
Estimate
Conclude
Summarize

Supportive Evidence:

Prove your answer. Support your answer. Give reasons for your

answer.

Explain your answer. Why or why not?

Why do you feel that way?

Steps to the Inquiry Process

Higher-level questions are essential to facilitating conceptual understanding. The inquiry process is facilitated by skillful questioning and provides students with the opportunity to become independent thinkers who master their own learning.

STEPS Description of Inquiry Level Sample Questions Step 1: Gather and Recall Information (Gathering/Input)

Ask **Level 1** questions to identify what students know about the problem or question and connect to prior knowledge.

What do you know about your problem?What does

mean?

- •What did you record from your class notes about the lecture?
- •What does it say in the text about this topic?

•What is the formula or mnemonic device (ex. P-E-M-D-A-S) that will help you identify the steps necessary to solve the problem?

Step 2: Make Sense Out of Information Gathered (Processing)

Ask **Level 2** questions to begin processing the information gathered, make connections and create relationships.

- •Can you break down the problem into smaller parts? What would the parts be?
- •How can you organize the information?
- •What can you infer from what you read?
- •Can you find a problem/question similar to this in the textbook to use as an example?
- •What is the relationship between _____ and _____?

Step 3:
Apply and Evaluate
Actions/
Solutions
(Applying/Output)

Ask **Level 3** questions to apply knowledge acquired and connections made to predict, judge, hypothesize or evaluate.

- How do you know the solution is correct? How could you check your answer?
- •Is there more than one way to solve the problem? Could there be other correct answers?
- •Can you make a model of a new or different way to share the information?
- •How do you interpret the message of the text?
- •Is there a real life situation where this can be applied or used?
- •Can you explain it in a different way?
- •Could the method of solving this problem work for other problems?
- •How would you teach this to a friend?

Costa's Content Specific Questions

Costa's Levels of Questioning - Math

Level 1 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... Explain the concept of... Give me an example of... Describe in your own words what means What mathematical concepts does this problem connect to? Draw a diagram of... Illustrate how

works.

Level 2 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? What occurs when..? Does it make sense to...? Compare and contrast to What was important about... What prior research/formulas support your conclusions? How else could you account for ...? Explain how you calculate... What equation can you write to solve the word

problem?

Level 3 Predict what will happen to __ as ____ is changed. Using a math 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... How can you tell if your answer is reasonable? What would happen to if variable were increased/decreased? How would repeated trials affect your data? What significance is this formula to the subject you're learning? What type of evidence is most compelling to you?

Costa's Levels of Questioning – Science

Level 1

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.

Level 2

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
asis 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?

Costa's Levels of Questioning - English

Level 1

What information is given? Locate in the story where... When did the event take place? Point to the... List the... Name the... Where did...? What is...? Who was/were...? Illustrate the part of the story that... Make a map of... What is the origin of the word What events led to

Level 2

What would happen to you if.. Would you have done the same thing as...? What occurs when..? Compare and contrast to What other ways could be interpreted? What is the main idea of the story (event)? What information supports your explanation? What was the message in this piece (event)... Give me an example of... Describe in your own words what _____ means. What does suggest about character? What lines of the poem express the poet's feelings about What is the author trying to prove? What evidence does he present?

Level 3

Design a to
show
Predict what will
happen to as
is changed
Write a new ending to
the story (event)
Describe the events
that might occur if
Add something new on
your own that was not
in the story
Pretend you are
What would the world
be like if
Pretend you are a
character in the story.
Rewrite the episode
from your point of
view.
What do you think will
happen to?
Why?
What is most
compelling to you in
this ? Why?
Could this story have
really happened? Why
or why not?
If you were there,
would you
How would you solve
this problem in your
life?

Costa's Levels of Questioning – Social Studies

Level 1

What information is given?
What are you being asked to find?
When did the event take place?
Point to the...
List the...
Name the...
Where did...?
What is...?
Who was/were...?
Make a map of...

Level 2

What would happen to you if... Can you see other relationships that will help you find this information? Would you have done the same thing as...? What occurs when..? If you were there, would you... How would you solve this problem in your life? Compare and contrast to What other ways could be interpreted? What things would you have used to... What is the main idea of the event? What information supports your explanation? What was the message in this event... Explain the concept of... Give me an example of... Describe in your own

words

Level 3

Design a to
show
Predict what will
happen to
as is
changed
What would it be like
to live
Write a new ending to
the event
Describe the events
that might occur if
Pretend you are
What would the world
be like if
How can you tell if
your analysis is
reasonable?
What do you think will
happen to?
Why?
What significance is
this event in the global
perspective?
What is most
compelling to you in
this? Why?
this? Why? Do you feel is
ethical? why of why
not?