

# 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 \_\_\_\_\_ 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?

# 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 \_\_\_\_\_'s 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 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 in this piece (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 what \_\_\_\_\_ means.

### **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?

Do you feel \_\_\_\_\_ is ethical? Why or why not?

# Bloom's Levels of Questioning: Science and Math

## 1. KNOWLEDGE—recalling information

## 2. COMPREHENSION— understanding meaning

## 3. APPLICATION—using learning in new situations

What information is given?

What are you being asked to find?

What additional information is needed to solve this problem?

What are you being asked to find?

Explain the concept of...

Can you see other relationships that will help you find this information?

What formula would you use in this problem?

Give me an example of...

What does \_\_\_\_\_mean? What is the formula for...? List the...Name the...

Describe in your own words what \_\_\_\_\_ means.

How can you put your data in graphic form?

Where did...? What is...?Who was/were...? When did ... ?

Draw a diagram of... Illustrate how \_\_\_\_\_ works. Explain how you calculate...

How would you change your procedures to get better results?

**4. ANALYSIS—ability to see parts and relationships**

**5. SYNTHESIS—parts of information to create new whole**

**6. EVALUATION—judgment based on criteria**

What (science or math) concepts does this problem connect to?

What occurs when ... ?

What method would you use to... Does it make sense to...?

Compare and contrast \_\_\_\_\_ to \_\_\_\_\_ .

Design a lab to show...

How can you tell if your answer is reasonable?

What was important about...

Predict what will happen to \_\_\_\_\_ as \_\_\_\_\_ is changed.

What would happen to \_\_\_\_\_ if \_\_\_\_\_ (variable) were increased/decreased?

Which errors most affected your results?

Using a principle of (science or math), how can we find ...?

How would repeated trials affect your data?

What were some sources of variability?

Describe the events that might occur if...

What significance is this experiment/formula to the subject you're learning?

How do your conclusions support your hypothesis?

Design a scenario for...Pretend you are...What would the world be like if ... ?

What prior research/formulas support your conclusions?

What type of evidence is most compelling to you?

How else could you account for...?

Do you feel \_\_\_\_\_ experiment is ethical?

# Bloom's Levels of Questioning: English and Social Studies

## 1. KNOWLEDGE—recalling information

## 2. COMPREHENSION— understanding meaning

## 3. APPLICATION—using learning in new situations

What information is given? What are you being asked to find? 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...? What are you being asked to find?

What would happen to you if ... ?

## 4. ANALYSIS—ability to see parts and relationships

## 5. SYNTHESIS—parts of information to create new whole

## 6. EVALUATION—judgment based on criteria

What other ways could \_\_\_\_\_ be interpreted?

What would it be like to live ... ?

What do you think will happen to \_\_\_\_\_? Why?

What things would you have used to ... ?

Write a new ending to the story (event).

What significance is this event in the global perspective?

What is the main idea of the story (event)?

Describe the events that might occur if...

What is most compelling to you in this \_\_\_\_\_? Why?

What information supports your explanation?

Add a new thing on your own that was not in the story.

Do you feel \_\_\_\_\_ is ethical? Why or why not?

What was the message in this piece (event) ... ?

Pretend you are...What would the world be like if ... ?

Could this story have really happened? Why or why not?

Explain the concept of...

Can you see other relationships that will help you find this information?

Give me an example of...

Describe in your own words what \_\_\_\_\_ means.

Would you have done the same thing as...?

Illustrate the part of the story that... Make a map of...This event led to...Describe the scenario...

What occurs when ... ?

If you were there, would you ... ?

How would you solve this problem in your life?

In the library (on the Web), find info about...

Compare and contrast \_\_\_\_\_ to \_\_\_\_\_ .

Design a \_\_\_\_\_ to show...

How can you tell if your analysis is reasonable?

What was important about ... ?

Predict what will happen to \_\_\_\_\_ as \_\_\_\_\_ is changed.

Would you recommend this \_\_\_\_\_ to a friend? Why?

