<u>Class Notes</u> If there was no class lecture this week, write a paragraph about what you learned and/or questions about	Name: Class:
what you didn't understand.	Period:
Topic:	Date:
Questions/Main Ideas:	Notes:
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Summary:	

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Topic Graphing	Name:
Linear Fauntions	Class: Algebra
Linear Ligaritorio	Period: 04
	Date:
Questions/Main Ideas	Notes
Standard form -	$A_X + B_Y = C$ ex. $4x + 3y = 9$
Slope intercept form-	y= mx+b ex y=2x+1
slope -	rise = change in y value = y2-y1
	run change x value x2-x1
	0
2x + 4y = 20	
find the slope:	$2 \times + 4 \sqrt{=} 20$
subtract ax	-ax '-ax
and the second sec	4y = -2x + 20 slope = - 2
divide by 4	4 4 4 y-intercept = 5
1	Y=1/2×+5
	1
How do you graph	* Graphing
a slope?	1. Plot y-intercept
	2. follow slope
	3. connect line
Find the slope:	(10, 4), (3, 2)
find slope '	$y_{a} - y_{1} = 2 - 4 = -2 = 2$
	x2-x1 3-6 -3 3
	$y=\frac{3}{3}\times +b$ $y=\frac{3}{3}\times +0$
substitute	$14 = \frac{3}{6} + \frac{5}{5} = 0$
	4=4+b b=0 y-intercept=0
	, , , , , , , , , , , , , , , , , , , ,
Summary: Today in c	ass we learned the standard form
(ax + by = c') the	slope intercept form (y=mx+b) and
what a slope is	(rise over run) We also learned that
when graphing,	you plot the y first then follow the slope.

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Topic: Atomic Model	Name:
	Period: 4
	Date:
Questions/Main Ideas	Notes
What does Niels	Niels Bohr's Hydrogen Atomic, Model (Hydrogen Atom)
Bohr's atomic	onations
model look like?	renergy level (orbit)
	(()) & rexcited state
What is the difference	$\left(\left((1p,0n) \notin \frac{1}{2} \right)^{-1} \right)$
between the ground state	ground state
and the excited state?	
	n an
How many electrons can	·n=] 2e
be on the same orbit?	·n=2 8c-
	·n=3 8e Excited: Whenever an
	·n=4 18e electron moves up.
	Ground State: Stays on
	the same level; lowest
	nucleus possible level.
Why was Bohn's	. It was said that Bohr's model was wrong.
model proven wrong?	· Electrons do not travel in an orbit around the nucleus.
. 0	. They travel on a sphere-shaped system.
	. There are more electrons closer to the
	nucleus than further away.
Summary: Nicls Bohr	proposed that electrons more around or circle
the nucleus in an a	orderly fashion, through orbits. It's believed that
in the 1st energy	level, there are only 2 electrons allowed, 80;
on the 2nd, 8c on th	e 3rd and 18e on the 4th. There's also the 2 types
of atom states (gro	und (excited). Bohr's model was later proven wrong.
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1 2.5: Inquiry

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Vocabulary: Costa's Levels of Thinking and Questioning



LEVEL1

j	Remember	Define Repeat Name	List State Describe	Recall Memorize Label	Match Identify Record
lister	Show	Give examples	Rewrite	Review	Tell
FIRST	Understanding	Discuss Express	Explain Report	Find Paraphrase	Summarize Generalize
TE	LEVEL 2				
3	Use Understanding	Dramatize Practice	Use Compute	Translate Change	Interpret Prepare
F	Children Standard	Operate Imply	Schedule Relate	Pretend Discover	Demonstrate Infer
ī	Fxamine	Apply	Illustrate	Solve	Criticize
T	Daumine	Distinguish Compare	Inventory Categorize	Differentiate Select	Experiment Break down
I		Divide	Debate	Point out	Discriminate
	Create	Compose Design Propose	Draw Arrange Suppose	Plan Compile Revise	Modify Assemble Prepare
I		Combine Construct	Formulate Organize	Write Devise	Generate
11	LEVEL 3				
11	Decide	Judge Value	Rate Justify	Choose Assess	Conclude Summarize
ΞI		Evaluate	Measure	Estimate	
D	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?
D					

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2.5: Inquiry



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

Tutor/Student Handout 2.5.3 (1 of 6)

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?

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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 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: 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 ...



Do you feel ______ (experiment) is ethical?

Are your results biased?

Tutor/Student Handout 2.5.3 (2 of 6)

2.5: Inquiry

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?

Tutorial Support Curriculum Resource Guide

Costa's Level of Thinking and Questioning



Name:

Costa's Model of Intellectual Functioning in Three Levels Grid

Subject	Level 1	Level 2	Level 3
English	In the book <i>The House on</i> Mango Street, what type of neighborhood does Esperanza live in?	Can you compare and contrast Esperanza's character traits to those of another character in a dif- ferent book?	Can you predict what will happen to Esperanza as she grows up? How will moving away from Mango St. change her perspective about life?
Math	Can you solve for x in the equation $2x + 5 = 10$?	 Can you compare and contrast these problems? -1/3(-25x + 10) = 19 and 2/3p - 2 = 10? How do you express 3y + 4 = 2x in standard form and. graph the solution? 	You want to design a rectangular dance floor 90 feet long and 75 feet wide. You need to make a drawing with a scale of 1 inch equaling 9 feet. Can you fit the drawing on a piece of paper 8.5 inches by 11 inches? Justify your answer.
History	Who was the first president of the United States? In what years did he serve?	Did the first president desire to be the president? Why or why not? Why did he decide to serve upon election?	If he had not been the first presi- dent, would there be the same precedents that we follow today (i.e., a two-term limit, a presi- dent's cabinet)? Are these models advantageous?
Science	What is a gene? What is a chromosome?	Can you compare and contrast genes and chromosomes?	Can you predict the traits of a child based on what you know about genes and chromosomes? What predictions could you make?
Spanish	Can you conjugate the Spanish verb "ser" in the present tense?	What are the differences and similarities between the preterit and past tenses in the Spanish language?	Can you invent a new Spanish regular "ar" ending verb? Try to use it in six sentences using dif- ferent tenses.

Implementing and Managing the AVID Program for Middle-Level

2.5: Inquiry

Bloom's Levels of Questioning: Science and Math

1. KNOWLEDGE—recalling information

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 ...?

Who was/were ...?

When did ...?

parts and relationships	
Compare and contrast to)
What was important about	
that has important about	
Vhich errors most affected your results?	
What were some sources of	
variability?	
How do your conclusions suppo	rt
your hypothesis?	
What prior research/formulas	
support your conclusions?	
How else could you account for.	?

What are you being asked to find?

Explain the concept of ...

Give me an example of ...

Describe in your own words what _____ means.

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

Draw a diagram of ...

Illustrate how _____ works.

Explain how you calculate ...

5. SYNTHESIS — parts of information to create new whole

Design a lab to show ...

Predict what will happen to _____ as _____ is changed.

Using a principle of (science or math), 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 ...?

3. APPLICATION—using learning in new situations

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 ...?

How would you change your procedures to get better results?

What method would you use to ...

Does it make sense to ...?

6. EVALUATION—judgment based on criteria

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 experiment/formula 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?

2.7: Tutorial Request Forms

XAVID Tutori	al Request Form XAVIE
Name:	(
Grade:/25=	Date:
Tutor's Signature:	Period:
Question 1:	Question Level:
	1
Subject	Source (page number):
Question 2:	Question Level:
Subject:	Source (page number):

Circle or highlight the appropriate boxes on the rubric. Mark only one box per category.

Max. Points	Questions	Resources	Participation	Cornell Notes	Reflection
5	• 2.5 pts for a Level 2 or 3 question	Student is prepared with textbook, CN from academic classes, materials, etc.	Student keeps discussion on topic at all times. Contributes many ideas/questions.	CN on presenters' questions are complete and contain many details.	Reflection is complete and thoughtful and identifies what was learned, how it was made clearer, and who helped the student.
3	• 15 pts for a Level 1 question	Student may be missing some resources such as textbook, CN from academic classes, etc.	Student occasionally distracts others from focusing on tutorial. Contributes few ideas/questions.	CN on presenters' questions are complete.	Reflection is basic and may identify what was learned, how it was made clearer, and who helped the student.
0	• no question	Student is not prepared with textbook, CN from academic classes, materials etc.	Student frequently distracts others from focusing on tutorials. Does not contribute or participate.	Notes on presenters' questions are not in CN form or are limited.	Reflection is incomplete or missing.

Reflection: Describe what you learned or what you understood more clearly through today's tutorial session. Be sure to explain your participation level.

2.7: Tutorial Request Forms

Tutor/Student Handout 2.7.4 (2 of 2)

CORNELL NOTES

Name of Student Presenter and Question	Notes/Steps	2	•	
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Week of:

Weekly Goals:

____ through __

Binder Contents	1
Needed Binder Contents	
 Good quality, 3-ring binder, 2" or 3" rings with pocket inserts 	
Five to six colored dividers with tabs to separate each academic class including AVID	5
 Zipper pouch to store supplies (3-hole punched heavy duty zip-lock bags also work) 	2
Two or more pens	
 Two or more sharpened pencils Filler paper (some potebook paper is now available in Cornell note style) 	E
 Assignment calendar for each academic class 	6
• Tutorial logs	5
Learning logs	e
Cornell note paper	
• Erasers	
• Highlighters	5
Suggested Binder Contents	-
One or more colored highlighter pens	¢.
 Notebook dictionary and/or thesaurus 	£
Calculator	
Six-inch ruler	5
Tips on note-taking and test-taking skills, tutorial guidelines, and other AVID strategy sheets	-
Sample of note-taking in specific subjects	8
Student binder should be organized in the following manner:	
1. Plastic supply holder	Ξ
2. Binder grading sheet	
Each subsequent section in the binder should have these	5
paris in this order:	
A. Divider (labeled by subject name) B. Calendar/assignment log	
C. Current Cornell notes	
D. Learning logs	
E. Handouts	1
F. Tests	
H. Blank paper	
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V	2
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2 Organizing the AVID Student Binder	