Have the Geology 2 Packet FINISHED by:

KEY: bold items = required, self-paced italicized = all together regular = optional/enrichment

Geology 2 - Minerals

. Int	ro to Minerals
	<u>A. Chapter Starter Transparency – Gems</u>
	B. Minerals in Sports Jigsaw
	C. Bellringer Ch. 3.1 (PT)
ı. W	hat is a Mineral?
	A. What is a Mineral Vodcast
	B. Rocks and Minerals Video Segment – Finding Jade and Gold in nature
	C. Guided Reading Chapter 3.1
	D. Mineral Classes Presentation
	E. Minerals blog response
п. н	low do you identify minerals?
	A. Identifying Minerals Vodcast
	B. Chapter 3.2 Jigsaw (PP)
	<u>C. Chapter 3.2 Practice Quiz (Ediscio/Senteo)</u>
	D. BrainPop "Mineral Identification"
	E. Scratch Test and Identifying Minerals Quick Labs, fluorescence and double image samples
	F. Mineral ID PowerPoint (PP)
	<u>G. Mineral ID – actual minerals <mark>(PP)</mark></u>
	<u>H. Minerals Eyewitness Video</u>
	I. "Minerals" Ediscio Flash Cards/Quizlet
	J. Minerals Standard Check Percent Score
	K. Identifying Minerals Blog Response
V. W	/hat else should we know about minerals?
	A. Chapter 3.3 Reading Guide
	B. Planet Earth "Caves" Video
	C. Articles (How do Gems Form and Diamonds and Dinosaurs) Reflections
V. U r	<u>nit Review</u>
	A. Review SMART Games
	B. Ediscio flash cards/Quizlet
	C. Rocks, Minerals, Weathering, Erosion, Deposition Unit Quiz Percent Score

I. Intro to Minerals

I. A. Chapter Starter Transparency - Gems

As you can tell (it's *italicized*), this activity will be done in class. Don't worry about doing anything here.

I. B. Minerals in Sports Jigsaw

Select an article. Read it. Answer these questions after you read.

- A. Sport or topic:
- B. 4+ interesting facts:
- 1.
- 2. _____
- 3.
- 4.
- 5.
 - C. Minerals related to the topic and how they are related (the mineral ___ is used in ___...)
 - 1. ______ is used in ______
 - 2. ______ is used in _____
 - 3. ______ is used in _____
 - 4. ______ is used in _____

I. C. Bellringer Chapter 3.1 (PT)





Compare the pictures of the pencil lead and a diamond. Both substances are composed of carbon.

1. How can the same element form two substances with such different properties? Please explain your answer below:

2. Sand and glass are also composed of the same ele substances that are composed of the same elements? F	ments, silicon and oxygen. Can you think of any other Please explain your answer below:
II. What is a Mineral? II. A. What is a Mineral? <u>Vodcast</u>	
Notes from Vodcast:	Questions you still have:
II. B. Rocks and Minerals Video Segment Go to the science vodcasts web site to watch the down 3 ideas that you learn while watching the sl	video segment about Jade and Gold. Write
1	
2	
II. C. Guided Reading Chapter 3.1	
 1. Which of the following statements is true about a. All minerals look like gems. b. Minerals are made of rocks. c. Mineral is just another term for Rocks. d. Rocks are made of minerals. 	
MINERAL STRUCTURE	
 2. Which of the following is NOT a characteristic a. It is a solid. b. It has a crystalline structure. d. It is formed in a 	

Match the correct definition with the correct term. Write the letter in the space provided.

the pro	_ 3. the smallest part		that has all	
into a	_ 4. a substance that simpler substance by			a. crystal b. atom c. element
that ha	_ 5 . a substance madave been chemically		re elements	d. compound e. native element
arrang	_ 6. a solid whose at ged in a definite patte		olecules are	
eleme	_ 7. a mineral that is nt	composed of or	nly one	
TWO	GROUPS OF MINER			
	_ 8. Minerals are divi	ided into two gro	oups based on their chem	nical composition.
What a	are the two groups?			
			c. carbonates and nonc	
	b. halides and non-	-halides	d. silicates and nonsilic	ates
	_ 9. Minerals that co			
	a. silicates	c. carbonate	S	
	b. sulfides	d. sulfates		
	a. quartz	c. feldspar	main component of mos	t of Earth's rocks?
	b. mica	d. magnetite		
	44 Which ciliagte w	minarala aanarat	to agaily into abaata whar	a thay brack?
			te easily into sheets wher	Titley break?
	a. quartz b. mica	c. feldspard. magnetite		
	D. IIIICa	u. magnetite		
	12. What silicate m	ineral is the bas	sic building block of many	rocks?
	a. quartz	c. feldspar	,	
	b. mica	d. magnetite		
Match	ı the correct descrip	otion with the c	orrect term. Write the le	etter in the space
provid	-			·
3	a madina alam-		13. minerals that conta	
	a. native eleme	ent5	14. copper, gold, and s	
	b. carbonates			in one or more elements ombined with sulfur
	c. halides			
	d. oxides		16. minerals that conta	iii carbon and oxygen
4	e. sulfates			

f. sulfides

aluminum or iron combine with o	• •		
fluorine, chlorine, iodine, or bron	•		
Now that you have finished this reading assignme	nt, correct your answers with an answer key.		
II. D. <u>Mineral Classes</u> Presentation			
Use chapter 3.1 to help you describe each minera presentation using the link above (in the title). Use			
classes of minerals.			
Silicates:			
Non-silicates:			
Types of Nonsilicates			
Sulfates:			
Sulfides:			
Carbonates:			
Native elements:			
Halides:			
Oxides:			
II. E. Minerals Blog Response			
Go to your science blog site to respond to the foll	owing 3 prompts:		
Crazy 8 Gator 8 V8			
 Four things a mineral must be: Two groups of minerals: One tough concept: 			
III. How do you identify minerals? III. A. Identifying Minerals Vodcast			
<u>Notes</u> :	Questions:		

_17. minerals that form when an element such as

Please see your Geology-2 Paper Packet (PP), III-B. Chapter				
3.2	Jigsaw, for the di	rections f	or the pos	ter and graphic
org	anizer for the ga	llery walk		
III.	T. C. Chapter 3.2 Practice Quiz (Ediscio/Senteo) What was your score on this practice quiz? Which questions did you answer incorrectly? How did/can you master the concepts in this standard check?			
III. D. BrainPop "Mineral Identification" Go to www.brainpop.com and log in. Username is memmiddle and password is brainpop. Find the video called "Mineral Identification", then watch it and learn. When finished, take the review quiz. Record the score you got on this practice quiz right here: III. E. Scratch Test & Identifying Minerals Quick Labs, Fluorescence and Double Images a. Follow the instructions on pg. 72 to complete the Scratch Test Quick Lab.				
Soft	est:	Middle:		Hardest:
2. H	ow you decided:			
	amine the items provided a			rals and which are not. Add
Mine	rals:		Non-minerals:	
6				

III. B. Chapter 3.2 Jigsaw - Identifying Minerals

	e the black light to observe fluorescent minerals. Then place the calcite on top of text. happens when you look at the text through the calcite?	
III.	F. Mineral ID PowerPoint	
Ope	en the PowerPoint link above. THEN, please see your	
Geo	ology-2 Paper Packet (PP), III-F. Mineral ID PowerPoint,	
for	the directions and data collection graphic organizer	
for	this assignment	
	tins assignment	
	ll also need a printed reference sheet for this activity, available with the answer keys for this packet.	
You w		
You w	ll also need a printed reference sheet for this activity, available with the answer keys for this packet.	
You wi	Il also need a printed reference sheet for this activity, available with the answer keys for this packet. G. Mineral ID - Actual Minerals	
You wind III. Plea	ase see your Geology-2 Paper Packet (PP), III-G. Mineral	
You wind a result of the second secon	Ill also need a printed reference sheet for this activity, available with the answer keys for this packet. G. Mineral ID - Actual Minerals ase see your Geology-2 Paper Packet (PP), III-G. Mineral Actual Minerals, for the directions for this assignment.	
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III. K. Identifying Minerals Blog Response

On your class's science web site, respond to the blog question that is posted.

Crazy 8 Gator 8 V8

IV. What else should we know about minerals?

IV. A. Chapter 3.3 Reading Guide

Read the following pages and answer the questions.

Δf	ter reading the content from <mark>pages 74-75</mark> : List and describe six ways that min	erals are formed
	the content from pages /4-75. <u>Hist and describe</u> six ways that him	
3.		
4.		
5.		
6.		
th	<mark>ges 78-79</mark> : After reading the content of each <mark>blue heading</mark> , give <mark>two examples</mark> eir use <mark>s (for a total of six examples).</mark>	of minerals AND
1.		
2.		
3.		
4.		
I۱	V. B. Planet Earth "Caves" Video What is limestone composed of?	
2.	What happens when limestone is subjected to rainwater over a long period of time?	<u> </u>
3.	The rainwater collects CO2 from the soil, making the water more acidic. What effect do this have on limestone?	es

4. How is calcite formed?
5. Explain in detail how calcite stalactites, stalagmites, and columns are formed.
6. What was the most interesting fact that you saw/learned about on Planet Earth?
IV. C. Articles (How do Gems Form and Diamonds and Dinosaurs) Reflections
Find a partner. Read one of the articles while your partner reads the other article.
Summarize yours, then share what you learned with your partner.
A. 3+ factors that help gems/diamonds form:
1
2
3
4.
5.
B. 2+ examples of where/when they are formed:
1
2
3.
4
C. 2+ other interesting details:
1
2.
3.
4.
Name of Person from whom you heard a summary:

V. Unit Review

V. A. Review SMART Games

V. B. Ediscio Flash Cards/Quizlet

Go back and review the geology Ediscio flash cards. This will refresh your memory of what you've been learning so far this quarter.

Flash card set	Weathering & Erosion	Rocks	Minerals
G	1		
Statistics			
(how much you knew)			

V <i>C</i>	Rocks, Minerals, Weathering, Erosion, Deposition UNIT Quiz
	(Covers both Geology I & Geology II)
	What was your score on this standard check?
	Which questions did you answer incorrectly?
	Will you be retaking this standard check?
	How did/can you master the concepts in this standard check?