

GEOL 1120

Learning Objective Activity #3 (Lesson 19–26)

Please read this entire assignment carefully. Post any questions you have in the Learning Objective Activities QUESTIONS discussion board thread on Canvas.

Assignment

Due date: Monday, March 30 at 11:59 pm

Your assignment is to write a 250–500 word (excluding captions and references) lesson on a Learning Objective. This lesson should not just be a summary of the class material. Instead, you are expected to explain the topic in your own words in a way that will help other students learn it. You may include content that was not discussed in class if it is relevant and aids in understanding. The use of outside sources is required. Remember to cite all your sources using both in-text citations and a reference list. Be sure to check the rubric on the last two pages of this document.

Depending on which Learning Objective you have been assigned, you may have to expand on the topic as appropriate. For example, if you had the Learning Objective "Describe the principle of uniformitarianism", instead of just describing the concept, you could do further research on how this principle is applied in geology. Remember that this outside research must still be related to the course content.

You have been assigned a Learning Objective to write about, you do not get to pick your own. Your assigned Learning Objective is listed on the next page of this document.

Still unsure of what's expected? Check out the example lessons posted on Canvas.

Submit your assignment in the "Learning Objective Activity #3 (Lesson 19–26)" discussion board thread. Reply to the original thread, not to the posts of your classmates. Copy and paste your assignment into the dialogue box and insert the figures using the "embed image" button. Your lesson should have a title and the Learning Objective you were assigned should be listed at the top of the post. The post cannot be edited after you submit it and additional submissions will not be graded.

These assignments are posted publicly so that at the end of this activity all students will have access to at least one lesson about each learning objective. Use these as a resource to help you study for the final exam!

Late policy: Late submissions are accepted but with a penalty of –10% per day (including weekend days). An extension will only be granted due to university approved absence and, if possible, must be pre-approved.

Assigned Learning Objectives

LO #	Learning Objective	Student
20C	Explain what the Kimberley Process is and why it is effective in some countries and not in others.	Anghinetti, John
21B	Describe how diamonds are brought from the mantle to the surface via kimberlite volcanoes.	Arnett, Evan
20A	Summarize the historical sources of diamonds prior to 1867, and the significance of the discovery of diamonds in South Africa in 1867.	Bates, Morgan
24A	Describe different mining methods, under what conditions they are used, and their impacts on the land.	Billingsley, Kate
19B	Describe the significance of diamonds in pop culture.	Bixler, Grace
19B	Describe the significance of diamonds in pop culture.	Boyd, Brooke
21A	Describe the geological conditions necessary for diamond formation.	Bradley, Andrew
19C	Provide examples of how diamonds have been marketed to the public.	Breakfield, Amanda
26B	Define the terms leaching, smelting, reclamation, and remediation.	Brown, Kayla
26E	Explain how closed mines are reclaimed and remediated.	Callahan, Caroline
23C	Describe the different types of surface mining methods including some advantages and disadvantages, and potential issues associated with each.	Campbell, Joshua
26D	Summarize the different ways that ore undergoes beneficiation.	Cash, Andrew
19C	Provide examples of how diamonds have been marketed to the public.	Cater, Andrew
24C	Explain challenges to reclamation.	Cherry, Aleah
26A	Define the terms waste rock, acid mine drainage, beneficiation, and tailings.	Chiaviello, Annalee
26A	Define the terms waste rock, acid mine drainage, beneficiation, and tailings.	Cromer, Cheyenne
26F	Describe the environmental hazards associated with each stage of the mining process.	Dendy, Lucas
19D	Describe in general how the Pink Panthers carried out jewelry heists.	Dukes, Robert
23C	Describe the different types of surface mining methods including some advantages and disadvantages, and potential issues associated with each.	Duscha, Maxwell
19D	Describe in general how the Pink Panthers carried out jewelry heists.	Ejlli, Isabella
25B	Explain how coltan mining has affected the Democratic Republic of the Congo.	Ellis, Riley
24B	Explain the importance and challenges of managing mining-related waste products.	Featherston, Bailie
26B	Define the terms leaching, smelting, reclamation, and remediation.	Fender, Benjamin
26C	Describe how waste rock is produced and how it could potentially cause acid mine drainage.	Freeman, Lawrence
21C	Apply your knowledge to value diamonds and determine the most likely location to find diamonds.	Fust, Nicholas
21B	Describe how diamonds are brought from the mantle to the surface via kimberlite volcanoes.	Gill, Tristan
20B	Identify and explain the causes of different colors of diamonds.	Godfrey, Ben

23A	Describe why and how geologists explore for ore deposits.	Hairston, LeAndra
25B	Explain how coltan mining has affected the Democratic Republic of the Congo.	Hartert, Todd
19D	Describe in general how the Pink Panthers carried out jewelry heists.	Hazel, Spencer
23E	Identify which mining method would be most appropriate to mine various ore deposit types.	Johnson, Windy
26D	Summarize the different ways that ore undergoes beneficiation.	Jones, Huston
24C	Explain challenges to reclamation.	Kerby, Joseph
26D	Summarize the different ways that ore undergoes beneficiation.	Khatib, Hannah
24B	Explain the importance and challenges of managing mining-related waste products.	Koon, Anna
26F	Describe the environmental hazards associated with each stage of the mining process.	Le, Taylor
20C	Explain what the Kimberley Process is and why it is effective in some countries and not in others.	Macris, Nick
26E	Explain how closed mines are reclaimed and remediated.	Mai, Michael
20A	Summarize the historical sources of diamonds prior to 1867, and the significance of the discovery of diamonds in South Africa in 1867.	Manuel, Will
20A	Summarize the historical sources of diamonds prior to 1867, and the significance of the discovery of diamonds in South Africa in 1867.	Mcallister, Drevon
23B	Compare and contrast surface and underground mining in general.	Mccoy, Connor
25B	Explain how coltan mining has affected the Democratic Republic of the Congo.	Mcdonald, Cole
21A	Describe the geological conditions necessary for diamond formation.	Mcdowell, Johnathan
19A	Explain how each of the 4 Cs (color, clarity, cut, and carat) are used to value diamonds.	Mcelvenny, Annie
20B	Identify and explain the causes of different colors of diamonds.	McRoy, Gavin
25A	Define the resource curse and give an example of a country that has been affected by it.	Mobbs, Harrison
26E	Explain how closed mines are reclaimed and remediated.	Morrison, Alec
19A	Explain how each of the 4 Cs (color, clarity, cut, and carat) are used to value diamonds.	Natenstedt, Ryan
23C	Describe the different types of surface mining methods including some advantages and disadvantages, and potential issues associated with each.	Obuszewski, Kyle
25C	Briefly summarize the history of OPEC and how it influences oil imports and consumption in the US and other western countries.	Pagett, Sarah
24A	Describe different mining methods, under what conditions they are used, and their impacts on the land.	Phillips, Valerie
25D	Explain why a country would have strategic reserves of mineral and energy resources.	Pollard, Nolan
25A	Define the resource curse and give an example of a country that has been affected by it.	Pond, Claire
25C	Briefly summarize the history of OPEC and how it influences oil imports and consumption in the US and other western countries.	Pugmire, Joseph

21C	Apply your knowledge to value diamonds and determine the most likely location to find diamonds.	Restrepo, Erick
26C	Describe how waste rock is produced and how it could potentially cause acid mine drainage.	Robertson, James
23A	Describe why and how geologists explore for ore deposits.	Saad, Danny
25A	Define the resource curse and give an example of a country that has been affected by it.	Saleeba, David
20C	Explain what the Kimberley Process is and why it is effective in some countries and not in others.	Saunders, Rhett
24B	Explain the importance and challenges of managing mining-related waste products.	Seawell, Anastasia
23D	Describe the different types of underground mining methods including some advantages and disadvantages, and potential issues associated with each.	Shin, Daniel
25D	Explain why a country would have strategic reserves of mineral and energy resources.	Smith, Harris
19C	Provide examples of how diamonds have been marketed to the public.	Steelman, Will
21A	Describe the geological conditions necessary for diamond formation.	Stone, Hunter
19A	Explain how each of the 4 Cs (color, clarity, cut, and carat) are used to value diamonds.	Susol, Jakob
23B	Compare and contrast surface and underground mining in general.	Swavely, Alan
23D	Describe the different types of underground mining methods including some advantages and disadvantages, and potential issues associated with each.	Taylor, Allen
23D	Describe the different types of underground mining methods including some advantages and disadvantages, and potential issues associated with each.	Tebou, Cole
23E	Identify which mining method would be most appropriate to mine various ore deposit types.	Towery, Jordan
21B	Describe how diamonds are brought from the mantle to the surface via kimberlite volcanoes.	Tuorila, Amelia
19B	Describe the significance of diamonds in pop culture.	Vickio, Jacob
23A	Describe why and how geologists explore for ore deposits.	Vocke, Cameron
26C	Describe how waste rock is produced and how it could potentially cause acid mine drainage.	Vu, Giang
25C	Briefly summarize the history of OPEC and how it influences oil imports and consumption in the US and other western countries.	Weglarz, Elias
24A	Describe different mining methods, under what conditions they are used, and their impacts on the land.	Wilson, Michael
25D	Explain why a country would have strategic reserves of mineral and energy resources.	Wojcik, Alexis
20B	Identify and explain the causes of different colors of diamonds.	Wright, Chloe

Grading Rubric

Criteria	Marking Scheme				Extra Notes
	Full Marks (100%)	Partial Marks (66.7%)	Partial Marks (33.3%)	Zero Marks (0%)	
Length (1 point)	LO meets the length criteria of 250 to 500 words.	Over/under the length criteria by 30 words or less.	Over/under the length criteria by 50 words or less.	Over/under the length criteria by more than 50 words.	*Length criteria excludes diagram/figure/table captions, and references
Communication (3 points)	Clearly explains the LOA in own words, in a simple way that other students can learn from it. Any jargon used is defined or simplified, and lay-language is used when necessary. All of the material in the lesson is accurate.	Much of the writing is simply paraphrased from the sources, but it is presented in a simple way that other students can learn from it; AND/OR some of the jargon used is not clearly defined or simplified, and some lay-language is missing; AND/OR some of the material in the lesson is not accurate.	Most of the writing is poorly paraphrased, AND/OR more than 10% of the material presented is quoted from the sources, AND/OR the material is not presented in a simple way that other students can learn from it; AND/OR some of the material presented in the lesson is not accurate.	All of the writing is a poorly paraphrased summary of the resources AND/OR the material is not presented in a simple way that other students can learn from it, AND/OR the majority of the material presented is not accurate.	
Clarity (2 points)	Written in complete and clear sentences with few grammatical errors. Format of the assignment is neat and organized.	Contains a few incomplete/confusing sentences. Grammatical errors make portions of the writing difficult to follow, but the main points are still understood. Format of the assignment is neat and organized.	Contains several incomplete/confusing sentences. Grammatical errors make a large portion of the material presented difficult to follow; AND/OR Poor formatting of the lesson takes away from ability to follow the material presented.	Written mostly/completely in incomplete or point-form sentences. Many grammatical errors make the writing very difficult to understand; AND/OR Poor formatting of the lesson takes away from ability to follow the material presented.	
Figures (1 point)	Includes at least one figure/graph/table sourced from outside the course content that helps the reader better understand the topic. Each figure caption fully explains the figure and its relevance to the lesson.	Includes at least one figure/graph/table sourced from outside the course content that may help the reader better understand the topic, but it does not have a caption that fully explains the figure and its relevance to the lesson.	Figure(s) is/are only from the course content AND/OR includes an irrelevant figure/graph/table from outside the source content that does not help the reader better understand the topic. Figure captions, if present, do not fully explain the figure(s) and	Does not include a figure/graph/table AND/OR includes only irrelevant figures.	*Don't forget to caption your figures and refer to them in-text.

			its/their relevance to the lesson.		
Resources (2 points)	Uses at least 3 different resources and all of them are reliable. (For example, the course content, the Gemological Institute of America (GIA), and Elements Magazine.)	Uses only 2 different reliable resources.	Uses only 1 reliable resource.	All resources are unreliable.	<p>*Course content can be used as one of your reliable resources.</p> <p>*Search engines such as Google, Google Scholar, or the Clemson library are great tools to find resources!</p> <p>*Wikipedia is a good place to start looking for resources, but it itself is not a reliable source.</p>
Citation style (1 point)	Cites all resources using both in-text citations and a reference list, and a proper and consistent citation style (APA, MLA, or Chicago).	Cites only some resources using both in-text citations and a reference list, AND/OR does not use a proper and consistent citation style (APA, MLA, or Chicago).	Does not use in-text citations AND/OR does not have a reference list, and does not use a proper and consistent citation style (APA, MLA, or Chicago).	Does not cite resources in-text or in a reference list.	<p>*Remember to cite the portions of the course material you used!</p> <p>*You can cite resources using either APA, MLA, or Chicago, but you must be consistent. Great guides for these formats are available at:</p> <p>https://owl.purdue.edu/owl/research_and_citation/resources.html</p>