17.1 Minerals of the Earth's Crust



Summarize main points from each video.

Video Title / topic	
Video Title / topic	
Video Title / topic	

Topic Introduction



Summarize your understanding of each paragraph.

Read/Summarize Text



- 1. Read the passage.
- 2. Underline key expressions in each sentence.
- 3. Re-write each word (or expression) you underlined.
- 4. Summarize the passage.

Minerals and Mohs Hardness Scale

Do write words you underlined

You can identify a mineral by its appearance and other properties. The color and luster describe the appearance of a mineral, and streak describes the color of the powdered mineral. Mohs hardness scale is used to compare the hardness of minerals.

Mohs' scale of mineral hardness is named after Friedrich Mohs, a mineralogist who invented a scale of hardness based on the ability of one mineral to scratch another. Rocks are made up of one or more minerals. According to the scale, Talc is the softest: it can be scratched by all other materials.

https://en.wikibooks.org/wiki/High School Earth Science/Identification of Minerals

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Using a complete	e sentence, su	ımmarize or	rephrase the	e passage	
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Read Text for Comprehension

Read this article for deeper understanding. No summary is required, although you may want to circle, underline, or mark key ideas and words.

Basics about minerals:

- You can identify a mineral by its appearance and other properties.
- The color and luster describe the appearance of a mineral, and streak describes the color of the powdered mineral.
- A mineral has a characteristic density.
- Mohs hardness scale is used to compare the hardness of minerals.
- The way a mineral cleaves or fractures depends on the crystal structure of the mineral.
- Some minerals have special properties that can be used to help identify the mineral.

Luster describes the way light reflects off of the surface of the mineral. You might describe diamonds as sparkly or pyrite as shiny, but mineralogists have special terms to describe the luster of a mineral.

They first divide minerals into metallic and non-metallic luster. If it is non-metallic, the words used are: adamantine, earthy, pearly, resinous, silky, and vitreous.

Non-Metallic Luster	Appearance		
Adamantine	Sparkly		
Earthy	Dry, clay-like		
Pearly	Pearl-like		
Resinous	Like resins, such as tree sap		
Silky	Soft-looking with long fibers		
Vitreous	Glassy		

Minerals with Non-Metallic Luster

For example, diamond has an adamantine luster. Quartz is not sparkly like a diamond is. Quartz has a vitreous, or glassy, luster.

Other properties of a mineral are its color, streak, (luster), density, hardness, cleavage and fracture, fluorescence, magnetism, radioactivity, reactivity, and smell.

Draw Illustration



Copy and Label the Illustration in the Space Provided

Mohs Scale of Hardness			
Mineral	Scale Number	Common Objects	
Talc	1		
Gyp sum Calcite	2 з	Fingernail Copper Penny	
Fluorite Apatite	4 5	——— Steel Nail ——— Glass Plate	
Orthoclase	——6———	Glass Flate	
Topaz		——— Streak Plate	
Corundum	——9——		
Diamond	10		

https://mandmminerals.wordpress.com/mohs-hardness-scale/

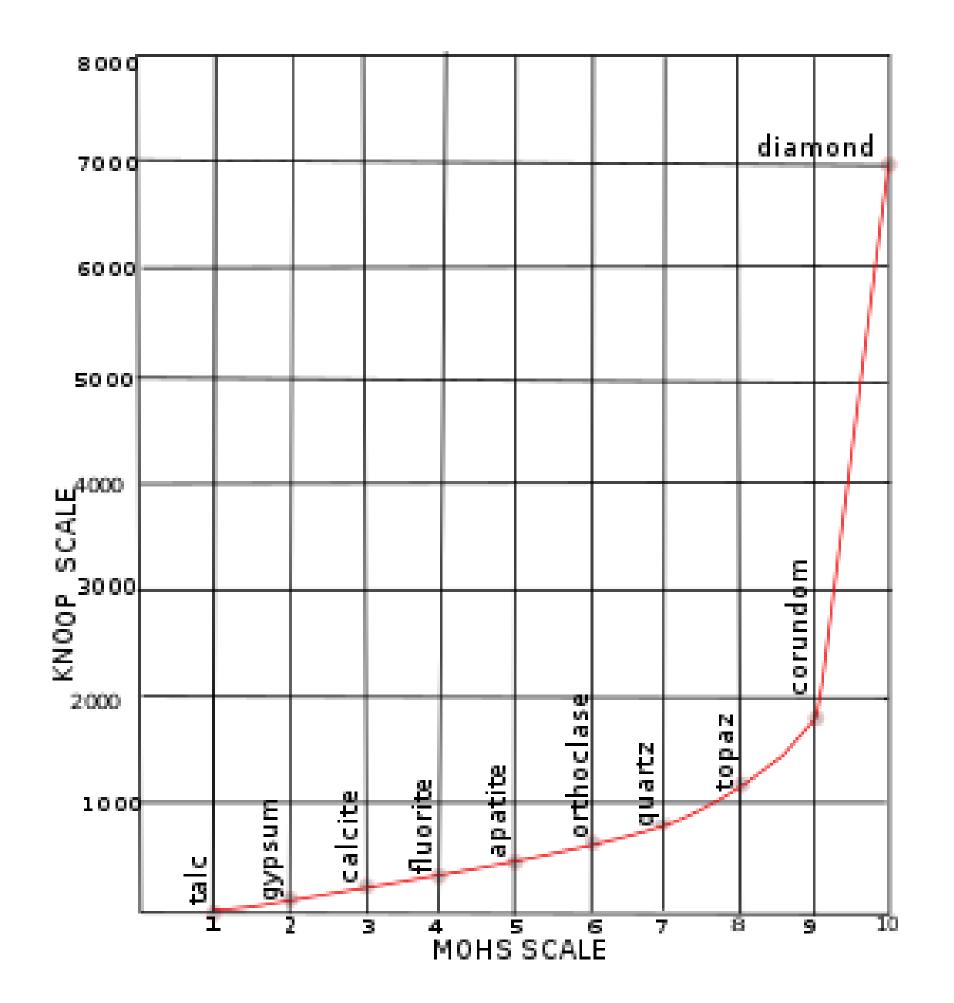
Draw (Copy) the Illustration Here				

Interpret a Graph



Write the title of the graph						
Circle the type of chart this represents						
В	ar Chart	Line Chart	Pie Chart	Other		
If applicable, What does the X-axis represent						
What does the Y-axis imply						
Summarize what this graph represents or conveys						
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https://simple.wikipedia.org/wiki/Mohs scale of mineral hardness



Show-Off Your Smarts!



Instructions

- Complete as an individual or small group.
- Discuss your ideas/answers/responses in a small group.
- Select one person to present your responses to the class.
- Q1. What makes each kind of mineral unique?

Q2. A mineral's streak is always the same regardless of the mineral's color. How is this possible – and why is this important?

Q3. What makes a mineral deposit worth mining?

Q4. Why don't we just use the word "rock" for all rocks and minerals?

Make a Poster

