Target 1: Apply evidence to support how minerals are classified based on the variety of unique characteristics they demonstrate.

Mineral	Hardness
Talc	1
Gypsum	2
Calcite	3
Fluorite	4
Apatite	5
Feldspar	6
Quartz	7
Topaz	8
Corundum	9
Diamond	10

1. Which mineral is the hardest?



- 2. Which mineral is the softest?
- 3. Which mineral has a hardness of 7?

Use the passage below to answer descriptive questions 4-9.

The Physical Properties of Minerals

Minerals are identified by analyzing their physical properties. Let's learn about these properties and discover what they mean and how to determine them. Cleavage and fracture are descriptions of how a mineral breaks into pieces. Cleavage describes how a mineral breaks into flat surfaces (usually one, two, three or four surfaces). Fracture describes how a mineral breaks into forms or shapes other than flat surfaces. The hardness of a mineral is a way of describing how easy or difficult it is to scratch the mineral. It is used, in combination with the other physical properties, to help identify a mineral specimen. Luster is a description of the way a mineral surface looks when light reflects off of the surface. Specific Gravity is a measure of the density of a mineral compared to the density of an equal volume of water. Streak is the color of a mineral when it is crushed to a powder.

#	Description	Term
4.	When this mineral is scratched against a ceramic tile, the color	Shoal
	of the line is different than the color of the mineral.	
5.	This mineral is the softest, because it is easily scratched.	hard hess
6.	The mineral is the hardest and cannot be scratched by a	
	fingernail or a steel nail.	haraness
7.	The mineral is shiny like a metal	
8.	This mineral is easily identified because it is green.	Color
9.	This mineral does not reflect light and is dull	

Target 2: Construct explanations for the role of the water cycle as a system in the weathering of rocks on Earth.





Coastal Landforms





11. Use the image to the left to identify figures A-F

D. SPIT E. Colmier PCACh F. headland



- 12. Which rock layer is the oldest?
- 13. Which rock layer is the



Rock	Formation	Composition
1	Sand particles cemented together	Silica and sand particles
2	Formed with intense heat and pressure	Silica and other minerals
3	Cooled quickly from lava at the surface	Iron and magnesium feldspar
4	Cooled slowly from the magma deep in earth's interior	Quartz and other silica minerals

The table shows how four different rocks were formed and gives their composition.

14. Based on this ta, which rock sample would best represent the intrusive igneous rock, granite? #_____

15. Which rock would best represent the clastic sedimentary rock sand stone? #

