## Cycle 1 Week 22 -

## HENERAL TOENTERATION

## Introduction

(\*Note: Your Mineral Kit includes: Fluorite, Feldspar, Hematite, Pyrite, Milky Quartz, Calcite, Muscovite (Mica), Magnetite, Gypsum, Talc, Pyrolusite, Biotite (Mica), Graphite, Satin Spar, and Selenite.)

- -Last week we talked about minerals and the different tests we do to determine their properties. Well this week we YOU will get to do the tests on a mineral!
- -What were our 4 tests? (Streak, Luster, Transparency, Hardness)
- -Partner up with a buddy. You will be performing these tests together!
- -Each group will take a turn with the tile and the nail for the streak and hardness tests.

(Allow each pair to choose one mineral to test; they can then swap with a neighbor – please do not let them choose the fragile, flakier minerals like mica.)

## MINERAL IDENTIFICATION

Mineral Name:			
Streak Test:  By pushing a mineral on the streak plate, we can figure out what color powder the mineral leaves behind. The color of the powder may be different from the color of the mineral.	Black	Black	Black
	White	White	White
	Red	Red	Red
	No streak	No streak	No streak
Luster Test: How light is reflected.  Glassy- reflect light similar to glass window Metallic—reflects light similar to a metal surface Dull— does NOT reflect light or reflects it poorly	Glassy	Glassy	Glassy
	Metallic	Metallic	Metallic
	Dull	Dull	Dull
Transparency Test: How much light is able to pass through the mineral. Opaque- NO light passes through it (like a wall) Translucent - SOME light passes through it (foggy window) Transparent - light DOES pass through it (like a window)	Opaque	Opaque	Opaque
	Translucent	Translucent	Translucent
	Transparent	Transparent	Transparent
Hardness Test: Determine the hardness of the mineral circle a number on the scale from 1-10 (1=softest, 10=hardness)	12345678910	12345678910	12345678910
Draw your mineral!			

MINERAL	LUSTER	TRANSPARENCY	COLOR	STREAK	HARDNESS
Graphite	nonmetallic/dull	opaque	Black-gray, black	Black	1
Feldspar	nonmetallic/ glassy, sparkly	translucent to transparent	White	none or white	6 - 6.5
Biotite	nonmetallic/ glassy	opaque	Brown-black	Gray-brown	2
Fluorite	Metallic	translucent to transparent	Green, purple	White	4
Hematite	Metallic, sparkles	opaque	Red, black, brown	Red	5
Calcite	nonmetallic/ glassy	translucent to transparent	Yellow, white, green, orange, blue, gray, brown	White	3
Quartz	nonmetallic/ glassy	translucent to transparent	Pink, white, clear, purple, yellow, black, brown, green, orange, etc.	none	7