


## Week 22—Mystery Minerals!

(Guess your mineral using the mineral identification tests below and a completed mineral identification sheet to compare findings.)

<p>Write it down and draw your mystery mineral here.</p> 					
<p><b><u>Streak Test</u></b> By pushing a mineral on the streak plate, we are trying to figure out what color the powder of this mineral leaves behind. The color of the powder may be different from the color of the mineral.</p>	<p>Black</p> <p>White</p> <p>Red</p> <p>No streak</p>	<p>Black</p> <p>White</p> <p>Red</p> <p>No streak</p>	<p>Black</p> <p>White</p> <p>Red</p> <p>No streak</p>	<p>Black</p> <p>White</p> <p>Red</p> <p>No streak</p>	<p>Black</p> <p>White</p> <p>Red</p> <p>No streak</p>
<p><b><u>Luster Test</u></b> Luster is a word that tells us how light is reflected off of something.</p> <p>Glassy— reflect light similar to glass window Metallic—reflects light similar to a metal surface Dull— does NOT reflect light or reflects it poorly</p>	<p>Glassy</p> <p>Metallic</p> <p>Dull</p>	<p>Glassy</p> <p>Metallic</p> <p>Dull</p>	<p>Glassy</p> <p>Metallic</p> <p>Dull</p>	<p>Glassy</p> <p>Metallic</p> <p>Dull</p>	<p>Glassy</p> <p>Metallic</p> <p>Dull</p>
<p><b><u>Transparency Test</u></b> Transparency is a word that tells us how much light is able to pass through the mineral.</p> <p>Opaque—light does <u>NOT</u> pass through it (like a wall) Translucent—<u>SOME</u> light is able to pass through (like a foggy window) Transparent—light <u>IS</u> able to pass through it (like a window)</p>	<p>Opaque</p> <p>Translucent</p> <p>Transparent</p>	<p>Opaque</p> <p>Translucent</p> <p>Transparent</p>	<p>Opaque</p> <p>Translucent</p> <p>Transparent</p>	<p>Opaque</p> <p>Translucent</p> <p>Transparent</p>	<p>Opaque</p> <p>Translucent</p> <p>Transparent</p>
<p><b><u>Hardness Test</u></b> The “hardness” of a mineral tells us how strong it is against other minerals. We use the MOHS scale to compare minerals to each other (developed in 1812 by scientist Frederick Mohs)</p>	<p>(1= softest, 10=hardest)</p> <p>1 2 3 4 5 6 7 8 9 10</p>	<p>(1= softest, 10=hardest)</p> <p>1 2 3 4 5 6 7 8 9 10</p>	<p>(1= softest, 10=hardest)</p> <p>1 2 3 4 5 6 7 8 9 10</p>	<p>(1= softest, 10=hardest)</p> <p>1 2 3 4 5 6 7 8 9 10</p>	<p>(1= softest, 10=hardest)</p> <p>1 2 3 4 5 6 7 8 9 10</p>

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