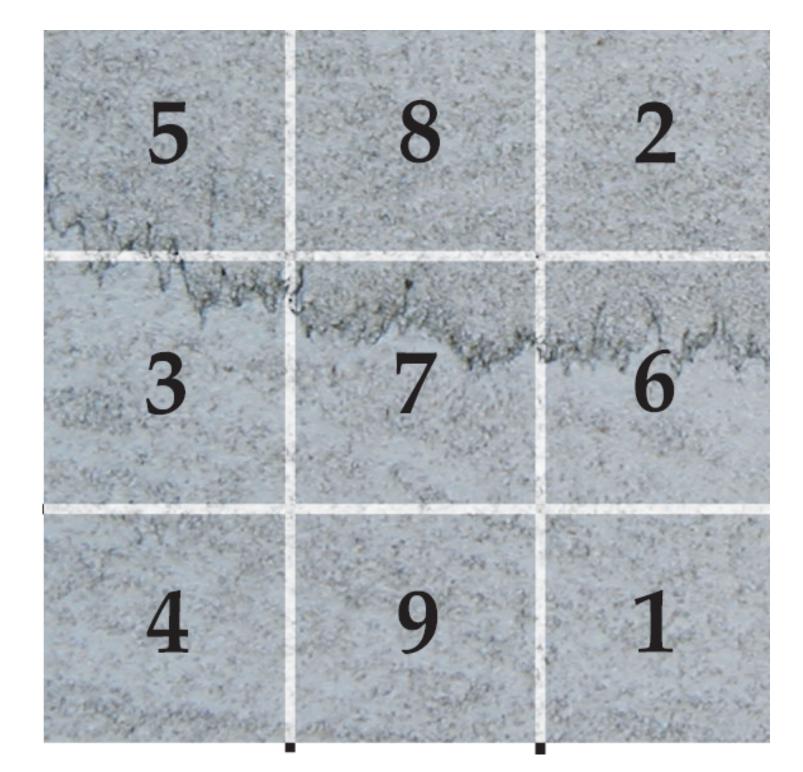
General Rock & Mineral

- 1. This is the mineral in Quartzite
- 2. This extrusive igneous rock contains phenocrysts of amphibole and other mafic minerals in a fine-grained, pale green/gray groundmass
- 3. This mineral reacts with dilute hydrochloric acid; it is present in marble
- 4. This mineral is dense, has a metallic luster, and is a source of lead
- 5. The parallel alignment of muscovite grains in this rock reflects its origin as a metamorphic rock
- 6. This Igneous intrusive rock contains plagioclase feldspar, quartz, and potassium feldspar
- 7. This medium green mineral has conchoidal fracture, and is characteristic of ultramafic rocks
- 8. This rock is a dark-colored (mafic) extrusive igneous rock
- 9. This mineral forms chemical sedimentary rocks, and is typical of 'evaporites'

Hardness

- 1. This common mineral has a hardness of 7
- 2. This mineral is common in biochemical sedimentary rocks and has a hardness of 3
- 3. This soft mineral has a hardness of 1-2.5, & a white streak
- 4. This mineral (mistaken for corundum by the founders of 3M) is present in most mafic igneous rocks, and
- has a hardness of 6
- 5. This ore mineral has a hardness of 5.5, but its most distinctive feature is its brick red streak
- 6. This mineral has a metallic luster, a hardness of 2.5, and a distinctive streak
- 7. This mineral has a metallic luster, a hardness of 6-6.5, and a distinctive streak
- 8. This mineral has one perfect cleavage and a hardness of about 2.5
- 9. This mineral is found in granites, and has a hardness of 6



Formulas

- 1. (Mg, Fe)₂ SiO₄
- 2. SiO₂
- 3. (Mg, Fe) SiO₃
- 4. KAI Si₃O₈
- 5. (Ca, Na) AlSi₃O₈
- 6. K (Mg,Fe)₃AlSi₃O₁₀(OH)₂
- 7. FeS₂
- 8. CaCO₃
- 9. PbS

Fracture, Cleavage & Crystal Form

- 1. This mineral contains magnesium and iron, and has one perfect cleavage
- 2. This mineral has conchoidal fracture, and will form terminated hexagonal crystals when it grows in open space
- 3. This mineral has two good cleavage planes at 56° and 124°
- 4. This mineral has 3 oblique cleavage planes, and forms rhombohedral cleavage pieces
- 5. This mineral has two good cleavages at 90°, and the cleavage faces are typically striated
- 6. This mineral has two good cleavages at 90°, and ranges from whitish to grayish or
- greenish in color, depending on the proportion of Na (sodium) and Ca (calcium)
- 7. This mineral has 3 perfect cleavage planes at 90°
- 8. This mineral has conchoidal fracture, and is the first mineral to crystallize
- in Bowen's Reaction Series
- 9. This sulfide mineral often forms granular masses, but when well-formed
- crystals are present they are often cubic or octahedral, and display striations
- on crystal faces