

I know a rock is igneous if:

- I see randomly located intergrown/interlocking crystals
- OR**
- I see vesicles where gases escaped as lava cooled
- OR**
- I see that the texture of the rock is glassy due to extremely rapid cooling (it is Obsidian!)

I know a rock is sedimentary if:

- I see layers of sediment cemented together
- OR**
- I see cobbles, pebbles, and sand grains cemented together
- OR**
- I see fossils
- OR**
- I see ripple marks / mud cracks

I know a rock is metamorphic if:

- I see bands of light and dark minerals
- OR**
- I see distorted / folded, foliated structure
- OR**
- I see foliations or mineral alignment texture (plate-like or flakey) with minerals like mica
- OR**
- I see a very hard, resistant, uniform, and weathered quartz boulder