

Lab 10 - Key

1. this is true
2. ferromagnesian
3. both
4. nonferromagnesian
5. fine crystals (porphyritic texture) or glass on the surface
large crystals (phaneritic texture) below the surface
6. on the surface (the very top of a lava flow)
7. basalt is gentle; andesite may be both; rhyolite is violent
8. Granite - light colored metals means nonferromagnesian silicates
9. sandstone is medium; shale is fine
10. sandstone is quartz; shale is clay
11. sandstone is beach or river; shale is swamp
12. yes, because the red hematite is the cement
13. sea shells and plant remains
14. Coal, because it is made of organic material
15. a foliated texture is aligned mineral grains, nonfoliated texture does not
16. Shist - quartz, muscovite
Gneiss - biotite, orthoclase, quartz
Marble - calcite
Quartzite - quartz
17. Shist - shale protolith
Gneiss - granite protolith
Marble - limestone protolith
Quartzite - sandstone protolith