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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mineral number | Color | Luster: Metallic  or Non-metallic | Can your fingernail scratch it? | Can the nail scratch it? | Does it leave a streak on the tile? What color? | Estimated hardness (1-10) | Cleavage:  Smooth (flat sides) or Rough | Name of Mineral |
| 1. | Dark grey to black | metallic | yes | yes | black | 1-2 | Rough, uneven cleavage | graphite |
| 2. | Silver or grey | metallic | No | Yes | grey | 2.5 | smooth | galena |
| 3. | Brass-yellow | Metallic | No | No | Brown or black | 6-6.5 | rough | pyrite |
| 4. | Black | Metallic dull | No | Yes | Black | 6 | rough | magnetite |
| 5. | Red to black | Dull and opaque (metallic) | No | Yes | Brick red | 5.5-6 | rough | Hematite |
| 6. | Colorless to white to pale red | Non metallic | No | Yes | White | 2.5 | Smooth sides, cubic | halite |
| 7. | Colorless, with yellow, purple, or green | Non metallic, dull | No | Yes | White | 4 | smooth | fluorite |
| 8. | Colorless, white, or pale | Non metallic, dull | No | Yes | White | 3 | smooth | calcite |

***Mineral Observation Chart*** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Record your observations about the minerals. Use your observations and the clues sheet to identify them.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mineral number | Color | Luster: Metallic  or Non-metallic | Can your fingernail scratch it? | Can the nail scratch it? | Does it leave a streak on the tile? What color? | Estimated hardness (1-10) | Cleavage:Smooth (flat sides) or Rough | Name of Mineral |
| 9. | blue | Non metallic | no | yes | blue | 3.5-4 | rough | azurite |
| 10. | Colorless or various colors | Non metallic, pearly | No | Yes | white | 3 | rough | barite |
| 11. | Colorless white | Non metallic, transpar-ent | Yes | Yes | white | 2 | smooth | selenite |
| 12. | Colorless to milky white | Non metallic | No | No | None/ white | 7 | rough | quartz |
| 13. | Colorless white or grey | Non metallic | No | No | None/white | 6-6.5 | Smooth on two sides | Potassium feldspar |
| 14. | Green grey or white | Non metallic, greasy | Yes | Yes | white | 1 | rough | talc |
| 15. | Grey to greenish, silvery | Non metallic, transparent | Yes | Yes | White | 2.5-3 | smooth | muscovite |
| 16. | Various: red, brown, black, orange or greenish | Non metallic | no | no | None/ white | 7-7.5 | rough | garnet |