The “Rocks Library” has pictures of 360 rock tokens -- 12 tokens for each of 30 subtypes of rocks.   There are 10 subtypes of each of the broad categories of igneous, metamorphic, and sedimentary rocks.   Igneous are subtypes 1-10, Metamorphic are subtypes 11-20, and Sedimentary are subtypes 21-30.   A listing of the subtype names in each broad category is provided below.

We used a lexicographic numbering scheme for the rock pictures.   Igneous are rocks 1-120, Metamorphic are rocks 121-240, and Sedimentary are rocks 241-360.   Within each high level category, the subtypes are alphabetized as shown in the table below, and the numbering of the rocks is in accord with this alphabetic order.  For example, Igneous:Andesite are rocks 1-12, Igneous:Basalt are rocks 13-24, etc., etc., Metamorphic: Amphibolite are rocks 121-132,  etc., etc., all the way through Sedimentary:Shale which are rocks 349-360.   The 12 tokens within each subtype are ordered arbitrarily in the numbering system. The number of each token is stored as part of the name of the image file for the rock.

Rock Names Table and Subtype Numbering System

|  |  |  |
| --- | --- | --- |
| **Igneous** | **Metamorphic** | **Sedimentary** |
| 1. Andesite | 11. Amphibolite | 21. Bituminous Coal |
| 2. Basalt | 12. Anthracite | 22. Breccia |
| 3. Diorite | 13. Gneiss | 23. Chert |
| 4. Gabbro | 14. Hornfels | 24. Conglomerate |
| 5. Granite | 15. Marble | 25. Dolomite |
| 6. Obsidian | 16. Migmatite | 26. Micrite |
| 7. Pegmatite | 17. Phyllite | 27. Rock Gypsum |
| 8. Peridotite | 18. Quartzite | 28. Rock Salt |
| 9. Pumice | 19. Schist | 29. Sandstone |
| 10. Rhyolite | 20. Slate | 30. Shale |