

# Rocks and Minerals of Canada

## Sedimentary Rocks

1. Bituminous Coal Canada is the world's 4<sup>th</sup> largest coal exporter. It is used for electrical generation.
2. Limestone Limestone is used to make cement.
3. Sandstone Sandstone is mined for silica for making glass.
4. Shale Shale is formed when silt, mud or clay is solidified into rock.
5. Dolomite Dolomite is composed of calcium magnesium carbonate and is found with limestone.
6. Conglomerate Rounded pebbles cemented together form conglomerate.
7. Arkose Arkose is composed of quartz and feldspar particles with smaller amounts of mica.

## Igneous Rocks

8. Nepheline Syenite Nepheline is used in the glass industry and is mined in Ontario.
9. Pumice Pumice forms from the cooling of gaseous lava.
10. Granite Pre-Cambrian granites form many of the mountains in Canada.
11. Pegmatite Pegmatite is a very coarse grained plutonic rock with a similar composition to granite.
12. Basalt Cooled lava flows from volcanic eruptions often form basalt.
13. Gabbro Gabbro is an extrusive, volcanic rock, which contains large amounts of plagioclase.
14. Scoria Scoria is a dark colored volcanic rock of basaltic composition with a porous texture

## Metamorphic Rocks

15. Marble Metamorphosed limestone and other carbonate-bearing rocks form marble
16. Slate Slate is a metamorphic product of shale.
17. Serpentinite Serpentinite is derived from the alteration of olivine, pyroxene or impure limestone.
18. Gneiss Gneiss contains bands of minerals, which segregate during the metamorphic process.
19. Quartzite Quartzite is metamorphosed sandstone, which is partially recrystallized.
20. Anthracite Coal Anthracite is a metamorphosed bituminous coal.

## Metallic Minerals

21. Bauxite Canada is the world's leading producer of this aluminum ore.
22. Malachite Malachite is a copper ore and Canada is the world's 3<sup>rd</sup> largest producer.
23. Molybdenite Canada is the world's 4<sup>th</sup> largest producer of this molybdenum ore.
24. Galena Galena is a lead ore and Canada is the world's 4<sup>th</sup> largest producer
25. Hematite Hematite is a common iron ore, which is used in the making of steel.
26. Magnetite Magnetite is another common iron ore mined throughout Canada.
27. Pyrrhotite Canada is the world's 2<sup>nd</sup> largest producer of this nickel ore.

## Nonmetallic Minerals

28. Potash-Feldspar Potash is used in ceramics & fertilizer. Canada is the world's leading producer.
29. Gypsum var. Alabaster Canada is the World's 3<sup>rd</sup> largest producer of gypsum, which is used in drywall.
30. Jade Jade has long been used as a gemstone. Jade is formed by metamorphic processes.
31. Quartz var. Milky Quartz makes up a substantial portion of the Earth's crust. It is used for making glass.
32. Halite Halite is found in deposits that resulted from the evaporation of ancient seas.
33. Sulfur Sulfur is one of the few minerals that is also an element. It is used by many industries.
34. Talc Talc is used in paints and talcum powder. Talc is found in metamorphic deposits.
35. Barite Barite is used in television tubes, paints, glass, drilling fluids, and in paper products.
36. Graphite Graphite is used as a lubricant and in pencils.
37. Mica var. Biotite Mica is an important constituent of igneous & metamorphic rocks.
38. Garnet Garnet is used as an abrasive and as a semi-precious gemstone.
39. Hornblende Hornblende is a rock forming mineral and is a major constituent of granites and schists.
40. Pyroxene var. Augite Pyroxenes are a common rock forming mineral of igneous and metamorphic rocks.