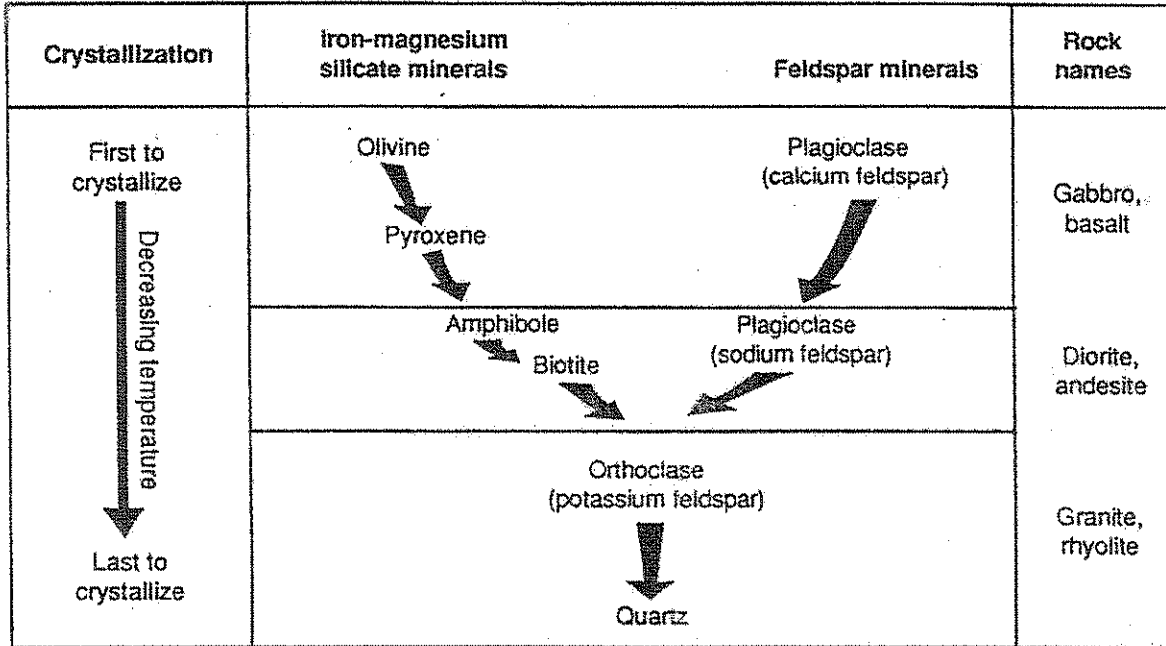


Bowen's Reaction Series Worksheet

CRYSTALLIZATION

This chart represents the order in which different minerals crystallize from a cooling magma or lava to form igneous rocks. Both mineral names and the rocks they form are shown. Use the chart to answer the questions.



1. Which minerals are the first to crystallize from cooling magma?
2. What kind of rocks is formed by these minerals?
3. Which mineral crystallizes at the lowest temperature?
4. Which feldspar mineral is found in granite?
5. What minerals form the rocks diorite and andesite?
6. Which mineral crystallizes from magma first *pyroxene* or *orthoclase*?
7. Which kind of magma is hotter, *Basaltic* or *Rhyolitic*?
8. Minerals higher in silica content crystallize from magma at lower temperatures. Which magma is higher in silica content, *Basaltic* or *Rhyolitic*?
9. Magma low in silica content flows more easily. Which kind of lava flows faster, *Basaltic* or *Rhyolitic*?