

## Chapter 8

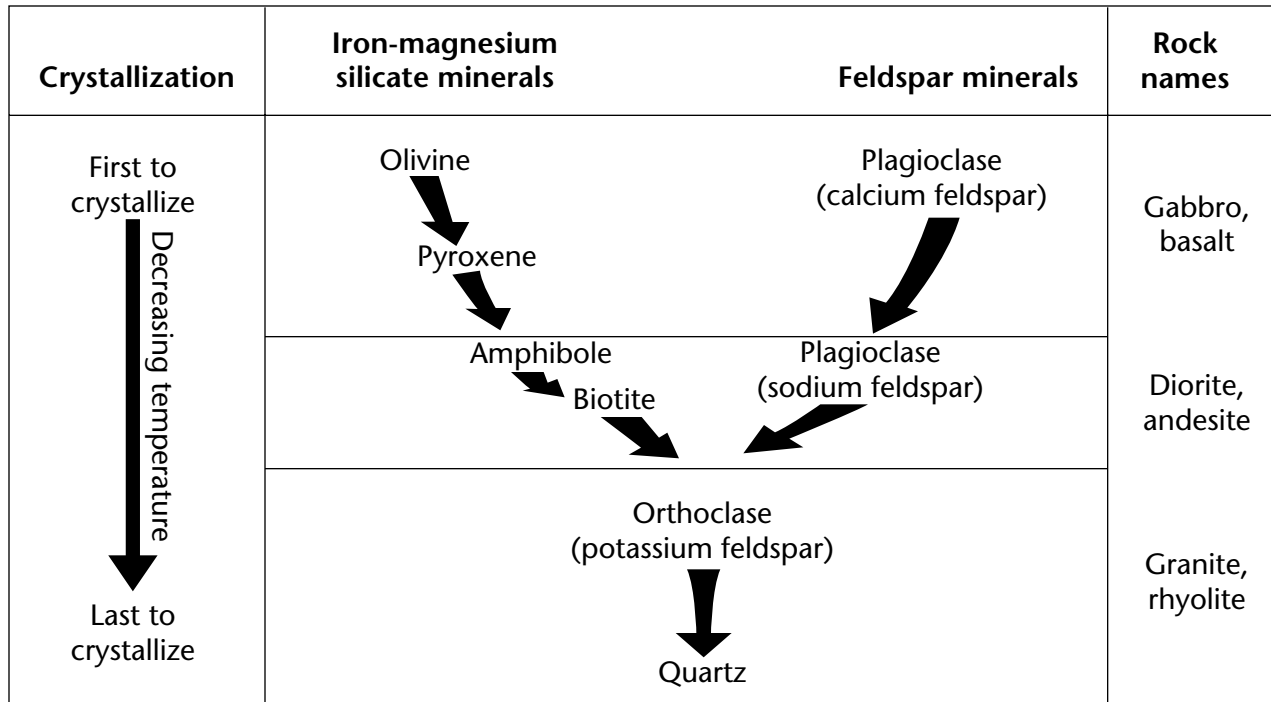
Use with Section 2

## ENRICHMENT

## ● Igneous Rocks

## 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.



- Which minerals are the first to crystallize from cooling magma? \_\_\_\_\_
- What kind of rocks are formed by these minerals? \_\_\_\_\_
- Which mineral crystallizes at the lowest temperature? \_\_\_\_\_
- Which mineral, pyroxene or orthoclase, crystallizes from magma first? \_\_\_\_\_
- Which feldspar mineral is found in granite? \_\_\_\_\_
- What minerals form the rocks diorite and andesite? \_\_\_\_\_
- Minerals higher in silica content crystallize from magma at lower temperatures. Which magma, basaltic or granitic, is higher in silica content? \_\_\_\_\_
- Magma low in silica content flows more easily. Which kind of lava, basaltic lava or granitic, flows faster? \_\_\_\_\_

NAME \_\_\_\_\_

DATE \_\_\_\_\_

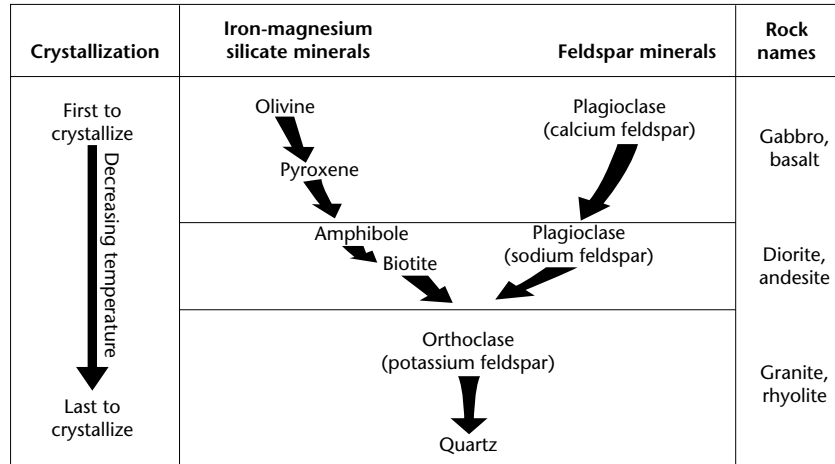
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**Chapter 8**

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**ENRICHMENT****• Igneous Rocks****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.



- Which minerals are the first to crystallize from cooling magma? olivine, plagioclase (calcium feldspar)
- What kind of rocks are formed by these minerals? gabbro, basalt
- Which mineral crystallizes at the lowest temperature? quartz
- Which mineral, pyroxene or orthoclase, crystallizes from magma first? pyroxene
- Which feldspar mineral is found in granite? orthoclase
- What minerals form the rocks diorite and andesite? amphibole, biotite, plagioclase
- Minerals higher in silica content crystallize from magma at lower temperatures. Which magma, basaltic or granitic, is higher in silica content? granitic
- Magma low in silica content flows more easily. Which kind of lava, basaltic lava or granitic, flows faster? basaltic lava