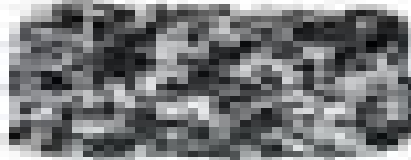


Lecture 11.1

11.1 **Basaltic and andesitic rocks** – Basaltic and andesitic rocks are the most common types of igneous rocks. They are both mafic (rich in magnesium and iron) and are typically dark in color.

Basaltic rocks are typically fine-grained and have a smooth, glassy texture. They are often found in the oceanic crust and in the upper mantle. **Andesitic rocks** are typically medium-grained and have a more crystalline texture. They are often found in the continental crust and in the upper mantle.



Basaltic rock
Photomicrograph



Andesitic rock
Photomicrograph



Basaltic rock
Photomicrograph
of a glassy texture



Basaltic rock
Photomicrograph



Andesitic rock
Photomicrograph



Basaltic rock
Photomicrograph



Basaltic rock
Photomicrograph
of a glassy texture



Andesitic rock
Photomicrograph

11.2 **Granitic and dioritic rocks** – Granitic and dioritic rocks are the most common types of igneous rocks. They are both felsic (rich in feldspar and quartz) and are typically light in color. **Granitic rocks** are typically coarse-grained and have a crystalline texture. They are often found in the continental crust and in the upper mantle. **Dioritic rocks** are typically medium-grained and have a more crystalline texture. They are often found in the oceanic crust and in the upper mantle.

Granitic rocks are typically coarse-grained and have a crystalline texture.

Dioritic rocks are typically medium-grained and have a more crystalline texture.

Hunter College Geology Lab Manual

Daniela Niemeyer



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