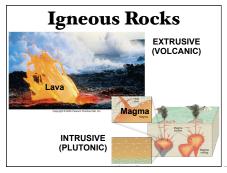
#### **Any Questions?**

# The Rock Cycle





### Igneous Rock Names are based on..

5

## Bowen's Reaction Series Topposition Toppos

Shows which minerals crystallize at particular temperatures, NOT anything about cooling time.

6

#### Igneous Rocks - Mineralogy

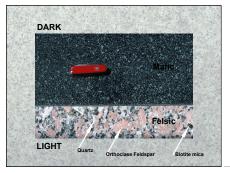




MAFIC - rocks that are rich in ferromagnesian minerals (Fe, Mg)

FELSIC - rocks that are rich in silicon and aluminum minerals (Si, Al)

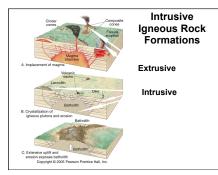
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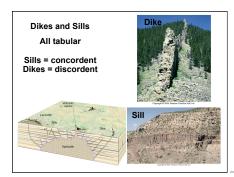


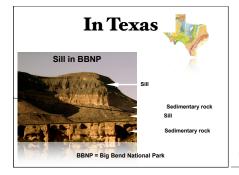
## Intrusive Igneous Rock Formations

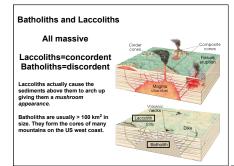


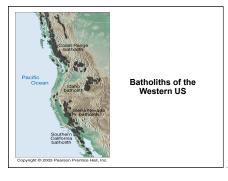
#### Intrusive Rock Bodies

	Tabular (table-like)	Massive (about as thick as wide)
Discordant (cuts across strata)	Dike	Batholith
Concordant (parallel with strata)	Sill	Laccollith







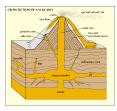


## **Extrusive Igneous Rocks**

Extrusive igneous rocks cool very quickly so they usually have small mineral crystals

17

Lava is merely magma that has made it to the surface. It comes from magma chambers in the subsurface.



18

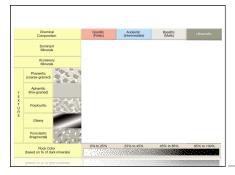
#### **Mafic Lavas**

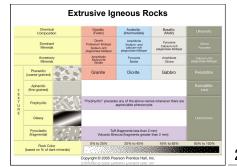


19

#### **Felsic Lavas**





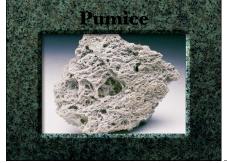




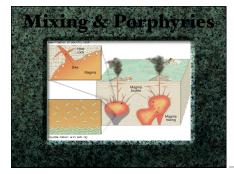




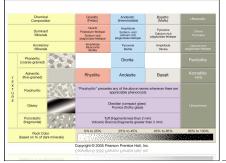


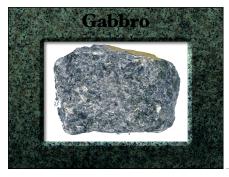




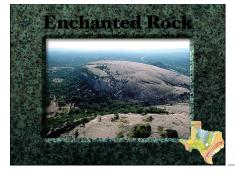


#### Intrusive Igneous Rocks















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