

## Ch 5 Classification of Igneous Rocks: Section 2 Guided Reading

**Preview** what you will be learning in Section 2. Read the title of the section and the first paragraph on page 118. Describe two ways that geologists use to classify igneous rocks.

1. \_\_\_\_\_
2. \_\_\_\_\_

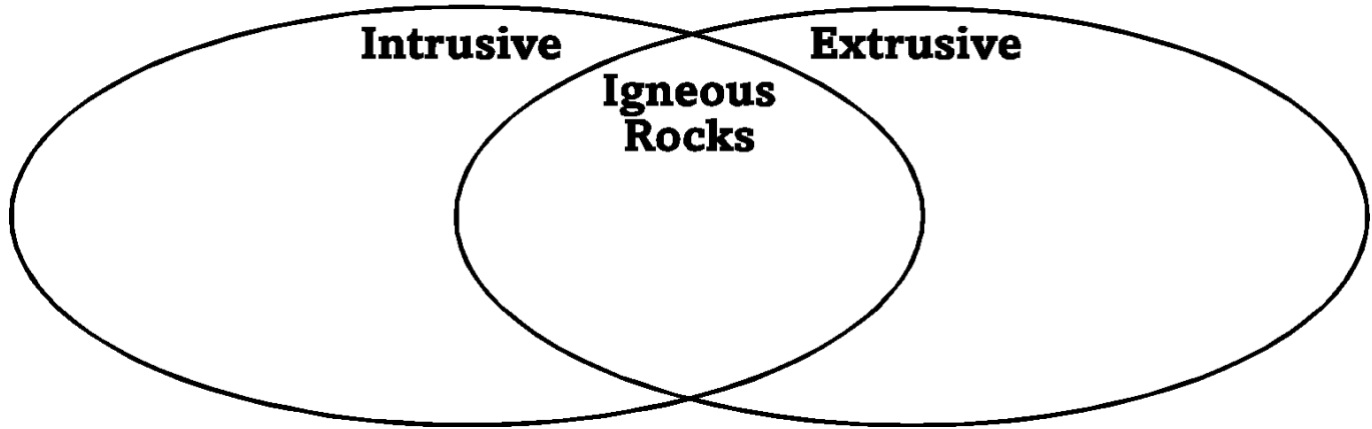
Use your text to define the following terms

3. fractional crystallization \_\_\_\_\_  
\_\_\_\_\_
4. intrusive rock \_\_\_\_\_  
\_\_\_\_\_
5. extrusive rock \_\_\_\_\_  
\_\_\_\_\_
6. basaltic rock \_\_\_\_\_  
\_\_\_\_\_
7. granitic rock \_\_\_\_\_  
\_\_\_\_\_
8. texture \_\_\_\_\_  
\_\_\_\_\_
9. porphyritic texture \_\_\_\_\_  
\_\_\_\_\_
10. vesicular texture \_\_\_\_\_  
\_\_\_\_\_
11. pegmatite \_\_\_\_\_  
\_\_\_\_\_
12. kimberlite \_\_\_\_\_  
\_\_\_\_\_

## Types of Igneous Rocks

Summarize information about intrusive and extrusive igneous rocks by writing each statement in the correct area of the Venn diagram.

- Coarse-grained
- Form above the surface
- Form beneath the surface
- Granite is an example
- Fine-grained
- Formed by crystallization of magma
- Cool quickly
- Rhyolite is an example
- Cool slowly



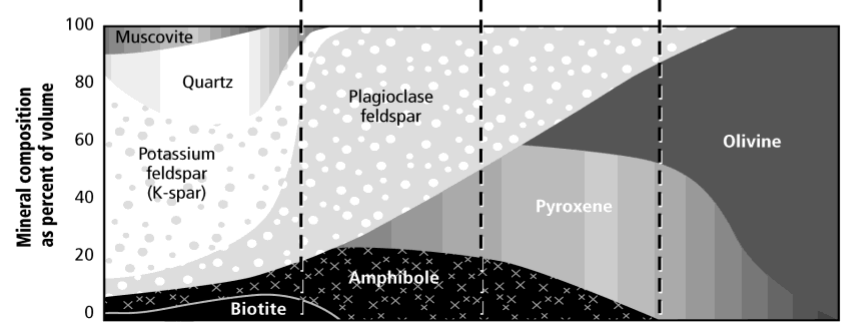
Interpret the diagram to list the approximate percent of the minerals found in the following rocks.

basalt: \_\_\_\_\_

diorite: \_\_\_\_\_

pegmatite: \_\_\_\_\_

	GRANITIC	INTERMEDIATE	BASALTIC	ULTRAMAFIC	TEXTURE
EXTRUSIVE	Obsidian		Basaltic glass		Glassy (non-crystalline)
	Rhyolite	Andesite	Basalt		Fine-grained
INTRUSIVE	Granite	Diorite	Gabbro		Coarse-grained
	Pegmatite				Very coarse-grained



## Grain Size

**Describe** *the conditions that cause igneous rocks to form large grains or no visible grains.*

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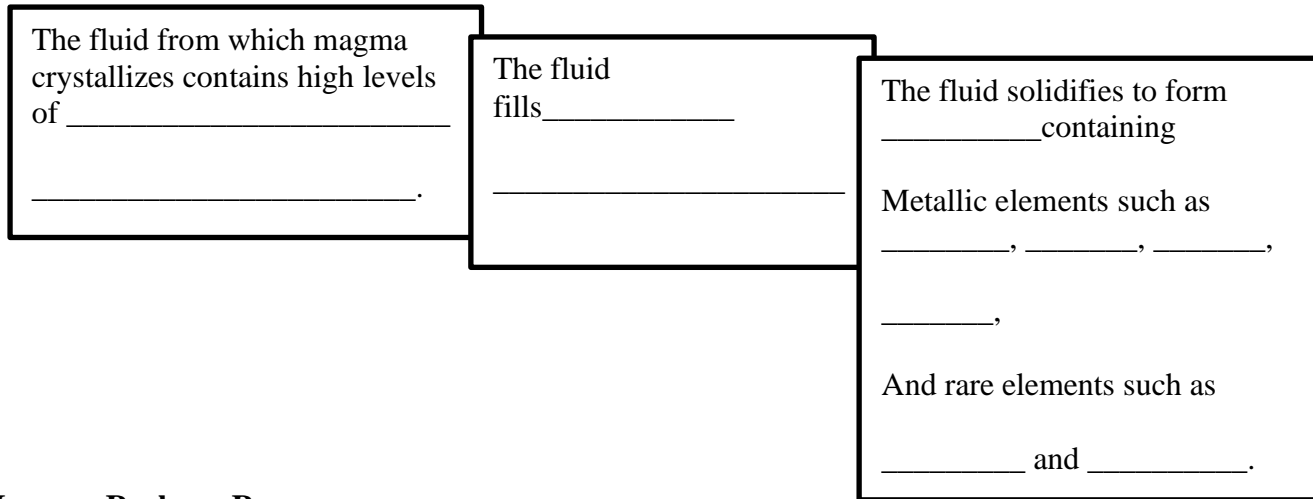
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## Ore Deposits

**Organize** *the steps in the formation of deposits in veins.*



## Igneous Rocks as Resources

**List** two characteristics of igneous rocks that make them good building materials

1. \_\_\_\_\_
2. \_\_\_\_\_

**Synthesize:** 1) *Identify the characteristic of igneous rocks that you could use to quickly determine whether a rock is extrusive or intrusive.* 2) *Explain how this characteristic develops.*

1. \_\_\_\_\_
  2. \_\_\_\_\_
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