Ch 5 What are Igneous Rocks Section 1 Guided Reading

Scan Section 1 of your text. Use the checklist below as a guide.

- Read all headings and bold words.
- Read all tables and graphs.
- Look at all the pictures and read their captions.
- Think about what you already know about minerals.

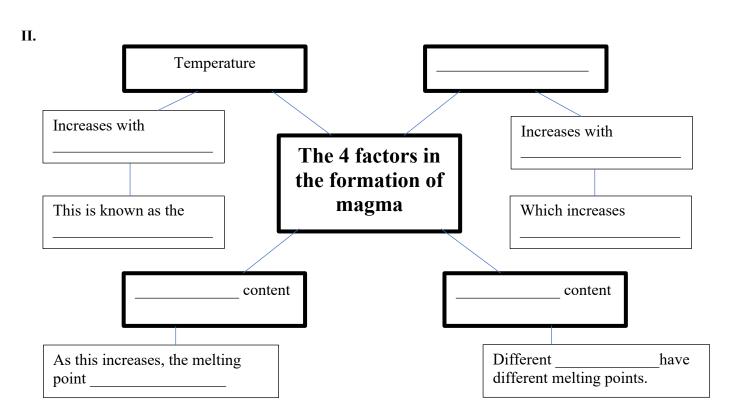
Write Two things you will learn about igneous rocks in this chapter.

1.	
2.	
	our text to define the following terms
3.	silicate
4.	igneous rock
5.	lava
6.	partial melting
7.	Bowen's reaction series
8.	Fractional crystallization
9.	Fracture
10	. basaltic: how much silica
11	. andesitic: how much silica
12	. rhyolitic: how much silica

Composition and Origins of Magma

Organize information about the composition and formation of magma by completing the outline and the concept web below.

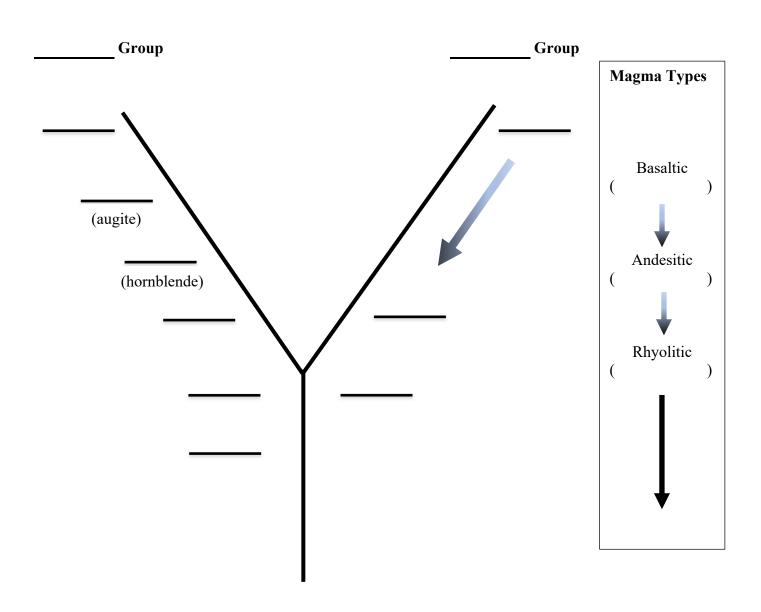
- I. Composition of magma
 - A. Magma is _____
 - **B.** The most common elements in magma are ______.
 - 1. The most abundant compound in magma is ______.
 - C. Magmas are classified as ______, _____, and ______.
 - 2. Their classification depends on _____



Partial Melting
Summarize how partial melting is the opposite of fractional crystallization?
Summarize how the <u>composition</u> of the <u>melted</u> material in magma changes as it melts and cools. Hint: Bowen reaction series.

Bowen's Reaction Series

Fill in the figure of Bowen's Reaction Series using Figure 4, page 114, as a reference.



Synthesize: Compare and contrast the changes that are represented in the left and right branches of Bowen's reaction series.