

Ch 6.3 Metamorphic Rocks Guided Reading

Scan the main headings for Section 3 in your text. Write three questions that come to mind.

1. _____

2. _____

3. _____

Use your text to define the following terms

1. intrusive _____

2. regional metamorphism _____

3. contact metamorphism _____

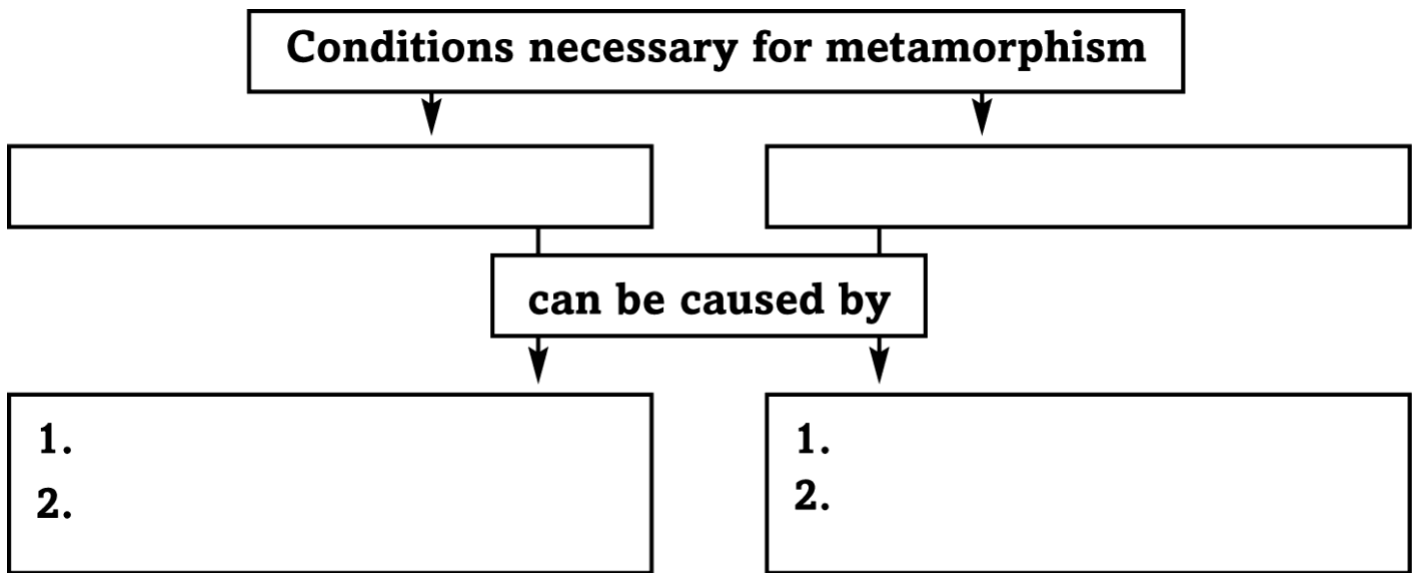
4. hydrothermal metamorphism _____

5. foliated _____

6. nonfoliated _____

7. rock cycle _____

Summarize information about causes of metamorphism by completing the graphic organizer.



Organize information about metamorphism by completing the outline.

I. Regional metamorphism

A. Occurs when _____
_____.

B. Geologists can divide metamorphic rock belts into zones based on _____
_____.

II. _____

A. Occurs when _____

B. Can result in _____.

III. _____

A. Occurs when _____

B. Can result in _____

Organize information about textures of metamorphic rock in the table below.

Texture	Shape of crystals	How formed	Examples
Foliated			
Nonfoliated		no directed pressure during metamorphism	
Porphyroblast	very large		

Compare mineral changes in metamorphism to changes in fractional crystallization. Name the process of mineral change in metamorphism.

Describe compositional changes in metamorphism by completing the paragraph below.

Hot fluids _____ during metamorphism. This can change _____.

Chemical changes often happen during _____.

Hydrothermal fluids _____.
