

كل ما يحتاجه الطالب في جميع الصفوف من أوراق عمل واختبارات ومذكرات، يجده هنا في الروابط التالية لأفضل مواقع تعليمي إماراتي 100 %

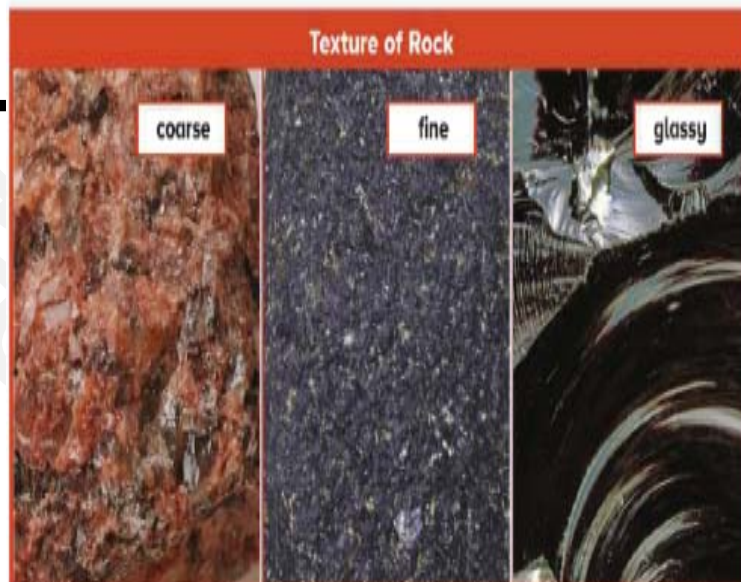
<u>تطبيق المناهج الإماراتية</u>	<u>الاجتماعيات</u>	<u>الرياضيات</u>
<u>الصفحة الرسمية على التلغرام</u>	<u>الاسلامية</u>	<u>العلوم</u>
<u>الصفحة الرسمية على الفيسبوك</u>	<u>الانجليزية</u>	
<u>التربية الاخلاقية لجميع الصفوف</u>	<u>اللغة العربية</u>	
<u>التربية الرياضية</u>		
<b>مجموعات التلغرام.</b>	<b>مجموعات الفيسبوك</b>	<b>قنوات تلغرام</b>
<u>الصف الأول</u>	<u>الصف الأول</u>	<u>الصف الأول</u>
<u>الصف الثاني</u>	<u>الصف الثاني</u>	<u>الصف الثاني</u>
<u>الصف الثالث</u>	<u>الصف الثالث</u>	<u>الصف الثالث</u>
<u>الصف الرابع</u>	<u>الصف الرابع</u>	<u>الصف الرابع</u>
<u>الصف الخامس</u>	<u>الصف الخامس</u>	<u>الصف الخامس</u>
<u>الصف السادس</u>	<u>الصف السادس</u>	<u>الصف السادس</u>
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<u>الصف الثامن</u>	<u>الصف الثامن</u>	<u>الصف الثامن</u>
<u>الصف التاسع عام</u>	<u>الصف التاسع عام</u>	<u>الصف التاسع عام</u>
<u>الصف التاسع متقدم</u>	<u>الصف التاسع متقدم</u>	<u>الصف التاسع متقدم</u>
<u>الصف العاشر عام</u>	<u>الصف العاشر عام</u>	<u>الصف العاشر عام</u>
<u>الصف العاشر متقدم</u>	<u>الصف العاشر متقدم</u>	<u>الصف العاشر متقدم</u>
<u>الحادي عشر عام</u>	<u>الحادي عشر عام</u>	<u>الحادي عشر عام</u>
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Science Grade 5  
(Chapter 9: Minerals, Rocks and Soil)  
Lesson 2: Rocks

- **Rock:** is a solid substance naturally occurring in Earth's crust that contains one or more minerals
  - **Granite:** a rock made of several minerals
  - **Limestone:** are made of mostly one mineral
- **A rock's color gives clues about the minerals that make it**
- **Grains:** are minerals pieces that made rocks
- **Rocks texture depend on:**
  - Size, shape and arrangement of the grains

Coarse texture rocks	Fine texture rocks
Rocks with large grains you can easily see	Rocks with too small grains to see

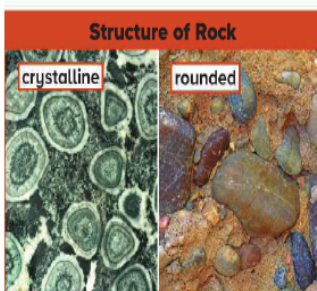
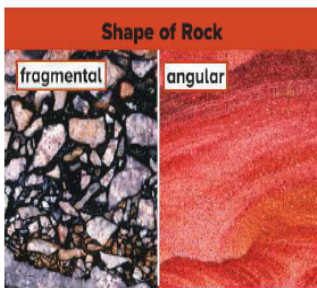


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**Rocks shape**

- Rocks shape are divides in to three main groups based on the formation process:
  - **Sedimentary** : a rock that forms from sediments
  - **Igneous**: a rock that forms as lava cools and hardness from magma that erupt through volcano
  - **Metamorphic** : is a rock that forms when sedimentary and igneous rocks change under heat and pressure without melting

Rock type	Characteristics
<b>Igneous</b>	Forms as melted rock cools and hardness into a solid
<b>Metamorphic</b>	Forms when rocks are exposed to increase in heat and pressure
<b>Sedimentary</b>	Forms when pieces of rocks and minerals are cemented together



**Quick Check**

1. What are the steps you would take to place an assortment of rocks into different categories?

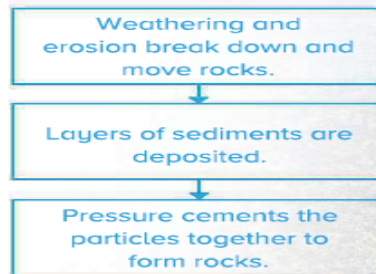
Possible answer: I would look at the grains first. Then I would look at the colors.

2. Why do you think rocks have different characteristics?

Possible answer: Rocks have different characteristics because they are made of different materials.

**Quick Check**

3. What are the steps by which an igneous rock turns into a sedimentary rock?

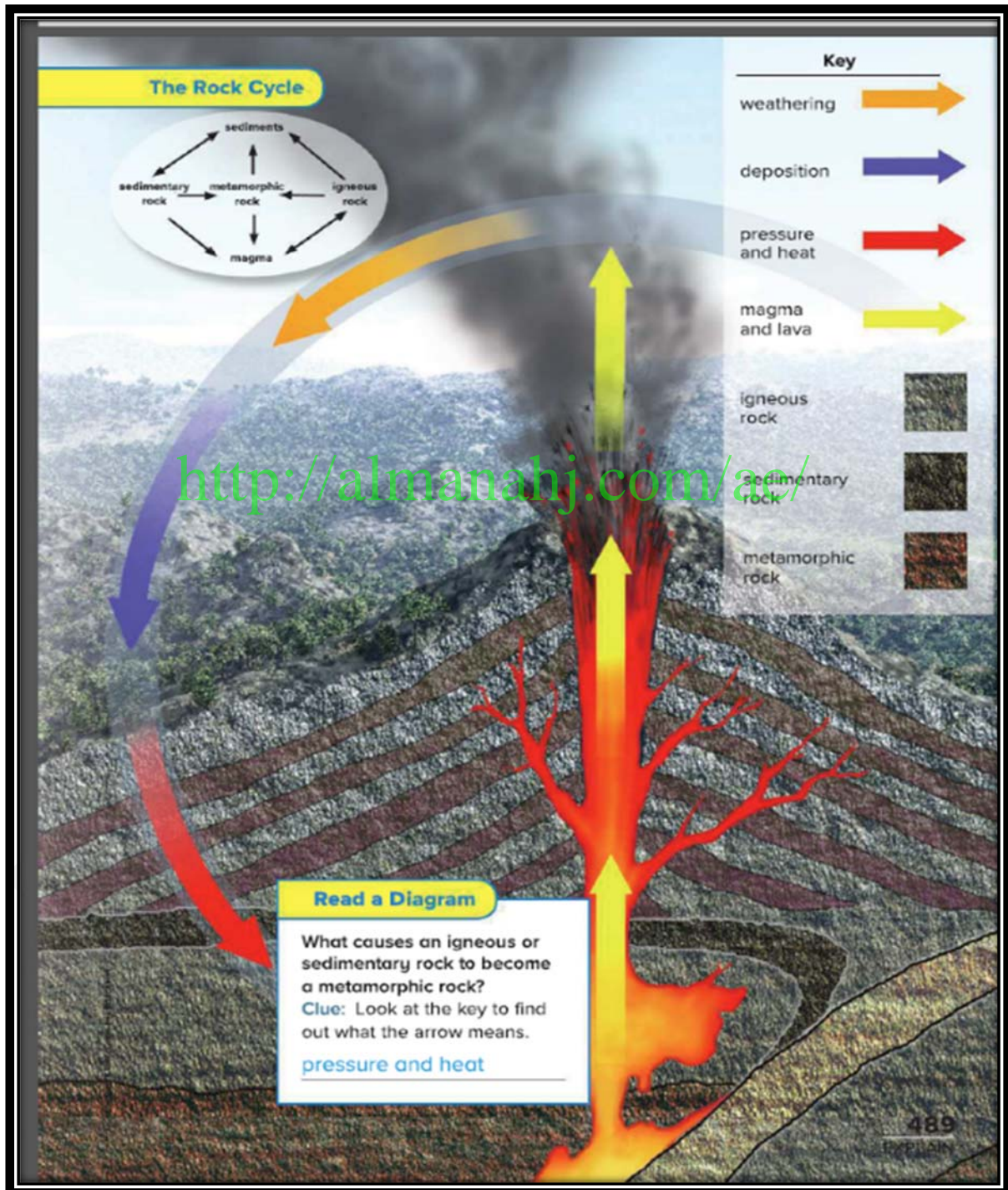


4. Why is the rock cycle called a cycle?

A cycle is similar to a loop with no beginning and no end. The changes in rocks on Earth are continuous and have no beginning and no end.

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**Rock cycle:** The continuous process in which rocks change from one kind into another

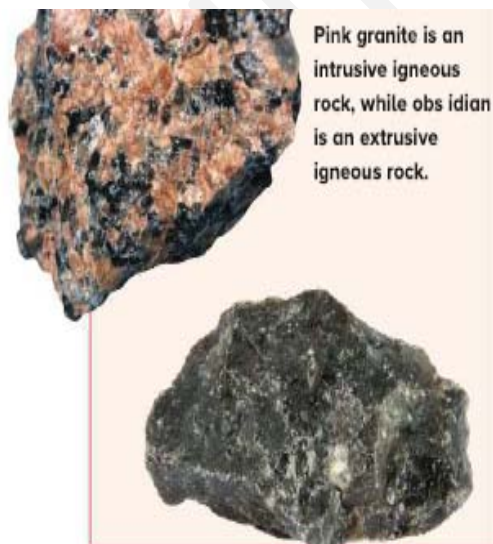




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**Igneous Rock**

<b>Type</b>	<b>Intrusive rock</b>	<b>Extrusive Rock</b>
<b>Location</b>	igneous rock forms from magma inside earth	igneous rock forms from Lava on earth surface earth
<b>Cool system</b>	Cool under earth slowly may take 100 years	Lava cool rapidly on earth's surface
<b>Crystal size</b>	Igneous rock with large crystal	The crystal forms in these rocks are very small and difficult to see
<b>Example</b>	<ul style="list-style-type: none"> <li>• <b>Granite</b> :Used in building materials</li> <li>• <b>Rubies</b>: used in making jewelry and germs</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Basalt</b>: the most common extrusive rock</li> <li>• <b>Obsidian</b>: is also called volcanic glass and it has no crystals and Its smooth and glassy Used to make sharp tools and weapons</li> <li>• <b>Pumice</b> : is forms gas bubble through the rock .Its Light and rough and used for grinding or polishing</li> <li>• <b>Rhyolite</b></li> </ul>



Because of its rough surface, people use pumice to remove dead skin cells.



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Sedimentary Rocks

- Are made of different materials that have been compacted together
- **Conglomerate rock:** rocks that made from smaller rounded stones that have been cemented together
- Sedimentary rock are used in buildings
- **Example:** Limestone and sandstone

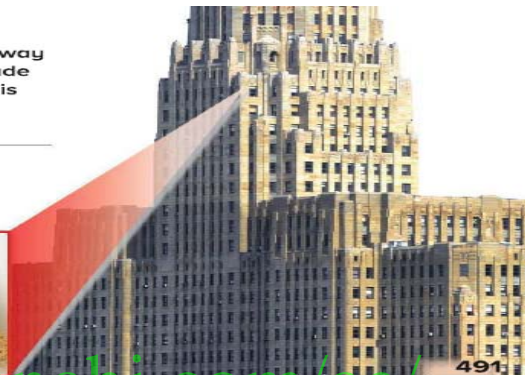


**Quick Check**

5. You are driving along a highway cut through walls of rock made of layers. What type of rock is this?

sedimentary rock

This building is covered with sandstone and limestone.

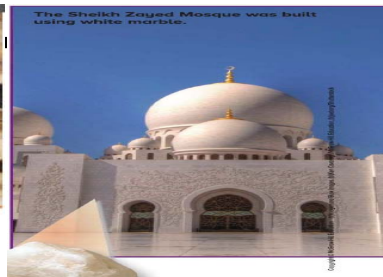


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Metamorphic Rocks

- is a rock that forms when sedimentary and igneous rocks change under heat and pressure without melting
- **Example:**
  - ✓ **Marble:** is a more compact rock than limestone with crystals that are locked together like pieces of a jigsaw puzzle
    - It is a shiny metamorphic rock that contains minerals that gives it is brilliant colors
    - It is easy to carve or shape so it is useful in fashioning states, floors, kitchen counters and monuments
  - ✓ **Slate:** is a type of metamorphic rock in which the minerals are tightly packed together making it waterproof
    - It is useful as roofing materials and stepping stones and outside floors



The color in this marble was caused by mineral impurities in the limestone from which it formed.



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**Please answer the following the following questions**

● **From which material does an extrusive rock form?**

- A. Magma
- B. Mineral
- C. Lava
- D. Sediment

● **A conglomerate is an example of which type of rock?**

- A. Intrusive igneous
- B. Extrusive igneous
- C. Sedimentary
- D. Metamorphic

● **When magma or lava hardens, -----rock is produced.**

- A. Limestone
- B. Igneous
- C. Sedimentary
- D. Metamorphic

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● **All are changes that happen in the rock cycle EXCEPT -----**

- A. Magma → sedimentary rock
- B. Igneous rock → sediment
- C. Metamorphic rock → magma
- D. Sediments → sedimentary rock

● **What causes an igneous rock to change into a metamorphic rock?**

- A. Weathering and erosion
- B. Heat and pressure
- C. Compaction and cementation
- D. Melting and cooling

● **Use the chart below to answer the following question**

**The chart below lists characteristics of the three main rock groups. Which order correctly fills in the column (top to bottom?)**

- A. Igneous, sedimentary, metamorphic
- B. Lava, igneous, metamorphic
- C. Sedimentary, metamorphic, igneous
- D. igneous, metamorphic, sedimentary

Rock type	Characteristics
	<b>Forms as melted rock cools and hardens into a solid</b>
	<b>Forms when rocks are exposed to increase in heat and pressure</b>
	<b>Forms when pieces of rocks and minerals are cemented together</b>

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- ----- a solid substance naturally occurring in Earth's crust that contains one or more minerals
  - A. Soil
  - B. Rock
  - C. Element
  - D. Minerals
  
- **A rock made of several minerals -----**
  - A. Granite
  - B. Limestone
  - C. Both A and B
  - D. None of A and B
  
- -----are minerals pieces that made rocks
  - A. Photons
  - B. Grains
  - C. Minerals
  - D. Atoms
  
- **Rocks texture depend on-----**
  - A. Size, shape and arrangement of the grains
  - B. Size of the grains
  - C. Shape of the grains
  - D. The arrangement of the grain
  
- **Rocks with large grains you can easily see-----**
  - A. Fine texture rocks
  - B. Coarse texture rocks
  - C. Both A and B
  - D. None of A and B
  
- **The most common extrusive rock-----**
  - A. Granite
  - B. Basalt
  - C. Pumice
  - D. Rubies

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- **Rocks shape are divides in to three main groups based on-----**
  - A. the formation process
  - B. the rock's temperature
  - C. the rock's size
  - D. the rock's color
  
- **A rock made of mostly one minerals -----**
  - A. Granite
  - B. Limestone
  - C. Both A and B
  - D. None of A and B
  
- **A rock that forms from sediments -----**
  - A. Igneous
  - B. Sedimentary
  - C. Metamorphic
  - D. All of the above
  
- **Igneous rock forms from Lava on earth surface earth-----**
  - A. Extrusive rock
  - B. Intrusive rock
  - C. Limestone
  - D. Sedimentary rock
  
- **A rock that forms as lava cools and hardness from magma that erupt through volcano -----**
  - A. Igneous
  - B. Sedimentary
  - C. Metamorphic
  - D. All of the above
  
- **Intrusive rock used in making jewelry and germs-----**
  - A. Granite
  - B. Basalt
  - C. Pumice
  - D. Rubies

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- **A rock that forms when sedimentary and igneous rocks change under heat and pressure without melting -----**
  - A. Igneous
  - B. Sedimentary
  - C. Metamorphic
  - D. All of the above
  
- **Igneous rock forms from magma inside earth-----**
  - A. Extrusive rock
  - B. Intrusive rock
  - C. Limestone
  - D. Sedimentary rock
  
- **Intrusive rock Used in building materials-----**
  - A. Granite
  - B. Basalt
  - C. Pumice
  - D. Rubies
  
- **Extrusive rock that has no crystals ,smooth and glassy and used to make sharp tools and weapons**
  - A. Basalt
  - B. Pumice
  - C. Obsidian
  - D. marble
  
- **Igneous rock with large crystal-----**
  - A. Extrusive rock
  - B. Intrusive rock
  - C. Limestone
  - D. Sedimentary rock
  
- **Extrusive rock that forms gas bubble through the rock .Its Light and rough and used for grinding or polishing**
  - A. marble
  - B. Pumice
  - C. Obsidian
  - D. Rhyolite

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- **Rocks that made from smaller rounded stones that have been cemented together -----**
  - A. Basalt
  - B. Pumice
  - C. Conglomerate
  - D. Marble
  
- **A more compact rock than limestone with crystals that are locked together like pieces of a jigsaw puzzle**
  - A. Slate
  - B. Marble
  - C. Sandstone
  - D. Basalt
  
- **Limestone and sandstone are example of -----**
  - A. Extrusive rock
  - B. Intrusive rock
  - C. Metamorphic
  - D. Sedimentary rock
  
- **A type of metamorphic rock in which the minerals are tightly packed together making it waterproof-----**
  - A. Slate
  - B. Marble
  - C. Sandstone
  - D. Basalt
  
- **It is a shiny metamorphic rock that contains minerals that gives it is brilliant colors and it is easy to carve or shape so it is useful in fashioning states, floors, kitchen counters and monuments**
  - A. Slate
  - B. Marble
  - C. Sandstone
  - D. Basalt
  
- **The sheikh zayed mosque was built using -----**
  - A. Slate
  - B. Marble
  - C. Sandstone
  - D. Limestone

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- Classify the following rock to either intrusive rock or extrusive rock

<b>Obsidian</b>	<b>Rhyolite</b>	<b>Granite</b>	<b>Basalt</b>	<b>Pumice</b>	<b>Rubies</b>
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<b>Intrusive rock</b>	<b>Extrusive Rock</b>

- Fill in the blank with the correct answers

<b>Intrusive rock</b>	<b>Rock</b>	<b>Sedimentary rock</b>	<b>Extrusive Rock</b>
<b>Metamorphic</b>	<b>Rock cycle</b>	<b>Conglomerate rock</b>	<b>Igneous rock</b>

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- A. Igneous rock forms from magma inside earth -----
- B. A solid substance naturally occurring in Earth's crust that contains one or more minerals -----
- C. A rock that forms from sediments -----
- D. A rock that forms as lava cools and hardens from magma that erupts through volcano -----
- E. A rock that forms when sedimentary and igneous rocks change under heat and pressure without melting -----
- F. Igneous rock forms from Lava on earth surface earth-----
- G. Rocks that are made from smaller rounded stones that have been cemented together -----
- H. The continuous process in which rocks change from one kind into another-----