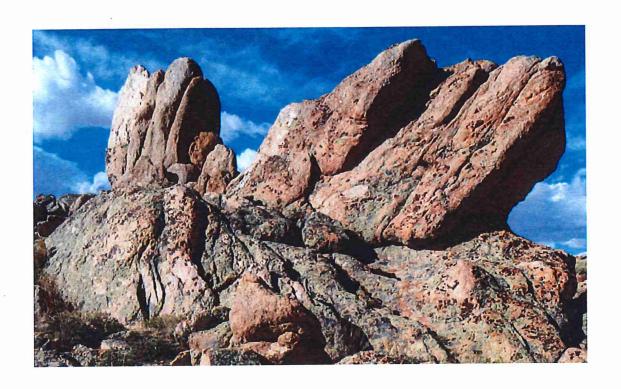
Rock Cycle Year 8 Test and Practical



Name:	MARKING	KEY

Teacher:

Practical	Test	Total
24	21	45

Year 8 Rocks Assessment

Part A: Multiple Choice

(5 marks)

- 1. Rocks that form from cooling magma underground are called:
 - a) extrusive metamorphic rocks
 - b) intrusive metamorphic rocks
 - c) extrusive igneous rocks
- d) intrusive igneous rocks
- 2. Identify the property of a diamond that allows it to scratch glass or drill through hard rock.
 - a) Lustre
 - b) Streak
 - (c) Hardness
 - d) Transparency
- 3. Which of the following rocks are formed from the remains of living things?
 - a) Basalt and Coal
- (b)) Coal and Limestone
 - c) Coal and Slate
 - d) Slate and Granite
- 4. All rocks are made up of a number of basic materials called:
 - a) fossils
 - b) ores
- (c)) minerals
- d) crystals

Use the following chart to answer the following question: 5.

Mohs'	Rank Position	Mineral
1	softest	talc
2		gypsum
3		calcite
4		fluorite
5		apatite
6		feldspar
7		quartz
8		topaz
9		corundum
10	hardest	diamond

Which of the following is correct?

- a) Calcite will scratch diamond
- b) Feldspar will scratch quartz
- © Quartz will scratch calcite
 d) Talc will scratch all minerals

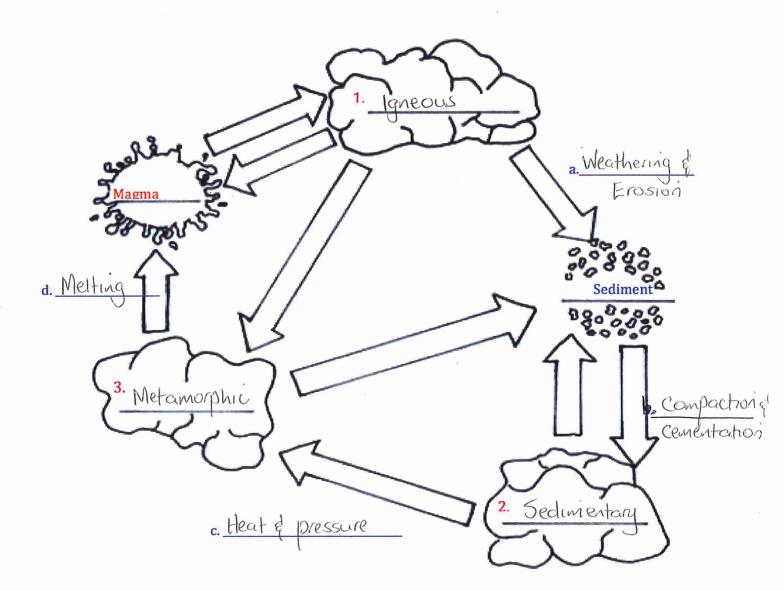
Part B: Label the Diagram

(7 marks)

A trip through the rock cycle takes millions of years.

Using the Rock Cycle diagram below:

- 1. Label the three rock types, using the spaces provided (boxes 1-3). (3 marks)
- 2. Label the four processes which help to create each of the rock types, using the spaces provided (lines a-d). (4 marks)

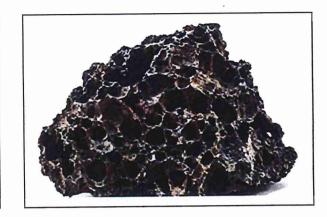


1. Label each of the 3 Rock samples shown below (Igneous, Sedimentary or Metamorphic).

(3 marks)







Metamorphic

Sedimentary

Igneous

2. Accompany your choice with two reasons why you think it belongs in that category (what features does it have that helps you classify • Urains | sediments of different • Vesicular (air holes) from trapped gas during cooling on the state of the sediments of different of the state of during cooling of the state of the state of the sediments of different of the state of the state of different of the state of the (6 marks)

Part D: Rock Cycle investigation

Materials:

1 sugar cube

Foil (10cm square)

Candle

Hand lens Wooden test tube peg

Safety glasses

White paper (10 cm square)

Procedure, Observations and Conclusions

Procedure	Observations - De	scribe what you see	Marks	Conclusion Relate your observations to the Rock Cycle	Marks
Examine the sugar cube with a hand lens.	Grain size	Very small / try/Fir		Explain why Igneous - trij crystals present - trij airholes / vesicles between crystals	1
	Grain shape	Cube (arcular)	each		2
	How close together are the grains?	Very close (touching)			
	Are the grains cemented together?	Yes			
	What is the overall shape of the sample?	Cube		Seclimientary - tiny grains/secliments - secliments cemented together.	
	What state of matter is the sample? (solid,liquid,gas)	Solid			

2. Place sugar cube on white paper square and use the back of the tongs to crush A SMALL	How close together are the grains in the small amount of crushed material?	Further apart (than before)	½ mark each	What process in the Rock Cycle does this crushing represent? Weathering Explain why:	2
AMOUNT of the cube into a powder.	Are the grains cemented together?	No		Physical breakdown of a large piece (1) with much smaller pieces (1)	
3. Fold the edges of the foil over to make a small bowl. Pour the	What process in the of the crushed sugar	represent?	noveme	nt from place to place,	1
crushed sugar into the foil bowl.	Explain why and how Fragments a paper to t by agents	re being moved the foil bowi)	Dhysicio 1) 5, win	ally (from the www.shutterstock.com · 38723950 id, water and for gravity (1)	2
4. Use the metal tongs to hold the bowl over the		Rock Cycle does this i			1
candle flame. Write down what your observations are after waiting a few minutes	Explain how this com Solid fragn and change	nes about in the Rock ments are heated state to form	Cycle d (1) molte	n/liquid 'rock' (1)	2

5. Set the foil bowl aside and let the sugar cool and harden. Write down what your observations after a few minutes.	What is the overall shape of the sample? What state of	Takes the shape of the foil (circular/square) etc)	½ mark each	What process in the Rock Cycle does this represent? Cooling / Solidification Explain how this comes about in the Rock Cycle. When hot magma/lava is exposed to cooler temperatures (1) and solidifies to form igneous	2
	matter is the sample? (solid,liquid,gas)	Solid _		rock (1)	
6.Break the hardened sugar into pieces by	What process in the Rock Cycle does this represent? Weathering			1	
crumpling the cooled foil a little. Write down what your observations are as the sugar begins to break	What is produced fro	m this process in the	Rock Cy	rcle?	1
up.	140 of the second what we did in atom 2 and what we did in stop 62				1 .
	What does this say about what happens to rocks? Rocks are part of a continuous process called the rock cycle, which involves Constant change from one form to another.				
	TOTAL: 24	nge from one	5		19