

Name: _____

Date: _____ Period: _____

ROCK CYCLE LAB

DIRECTIONS: ROLL, WRITE, MOVE, REPEAT!!

INITIAL POSITION: _____

				What happened?
1st Roll #:	_____	After	200,000 years...	_____
2nd Roll #:	_____	After	400,000 years...	_____
3rd Roll #:	_____	After	600,000 years...	_____
4th Roll #:	_____	After	800,000 years...	_____
5th Roll #:	_____	After	1,000,000 years...	_____
6th Roll #:	_____	After	1,200,000 years...	_____
7th Roll #:	_____	After	1,400,000 years...	_____
8th Roll #:	_____	After	1,600,000 years...	_____
9th Roll #:	_____	After	1,800,000 years...	_____
10th Roll #:	_____	After	2,000,000 years...	_____
11th Roll #:	_____	After	2,200,000 years...	_____
12th Roll #:	_____	After	2,400,000 years...	_____
13th Roll #:	_____	After	2,600,000 years...	_____
14th Roll #:	_____	After	2,800,000 years...	_____
15th Roll #:	_____	After	3,000,000 years...	_____

				What happened?
16th Roll #:	_____	After	3,200,000 years...	_____
17th Roll #:	_____	After	3,400,000 years...	_____
18th Roll #:	_____	After	3,600,000 years...	_____
19th Roll #:	_____	After	3,800,000 years...	_____
20th Roll #:	_____	After	4,000,000 years...	_____
21st Roll #:	_____	After	4,200,000 years...	_____
22nd Roll #:	_____	After	4,400,000 years...	_____
23rd Roll #:	_____	After	4,600,000 years...	_____
24th Roll #:	_____	After	4,800,000 years...	_____
25th Roll #:	_____	After	5,000,000 years...	_____
26th Roll #:	_____	After	5,200,000 years...	_____
27th Roll #:	_____	After	5,400,000 years...	_____
28th Roll #:	_____	After	5,600,000 years...	_____
29th Roll #:	_____	After	5,800,000 years...	_____
30th Roll #:	_____	After	6,000,000 years...	_____

SUMMARY: ON THE ATTACHED DIAGRAM, DRAW ARROWS TO SHOW HOW YOU MOVED THROUGH THE ROCK CYCLE!

11. Weathering and erosion

3. Sediments

5. To the surface

1. Compaction and cementation

4. Igneous Rock

7. Sedimentary rock

9. Cooling and hardening
(crystallization)

2. High temperature and pressure

10. Magma

12. Recrystallization

8. Melting

6. Metamorphic rock

INTERPRETATION

1. Where did you spend the most time? _____

2. Why is the rock cycle called a cycle? _____

3. What are the possible directions that SEDIMENTARY ROCK can take in this cycle? _____

4. What steps can happen after materials are brought TO THE SURFACE (Station 5)? _____

5. Why didn't everyone follow the same path? _____

6. How much of the rock cycle can be observed, and how much is inferred (list specific steps in your answer)?

7. How might people be affected (in both the short and long term) by the movement of earth material through the rock cycle?

8. Assuming that each "roll" requires 200,000 years, determine the average time it takes for each of the following steps to occur:

COOLING AND HARDENING to SEDIMENTS = _____

HIGH TEMP. AND PRESSURE to THE SURFACE = _____

WEATHERING AND EROSION to IGNEOUS ROCK = _____