

Rock Cycle Activity

Draw a diagram of what the rock cycle stations are below. Put a star next to the station you are starting at. For each roll of the die, indicate where you are moving. If you stay at the same station, indicate how many times you stay there with tick marks.

As a pair/group, start at your own station. Have someone in the group roll the die on the table. Record the outcome (what the die says) in the table below, then do as instructed – either stay where you are or move on to the correct station. Roll the die again and continue, being sure to draw in the arrows above.

Die Roll Number	Outcome
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

Die Roll Number	Outcome
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

Die Roll Number	Outcome
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	

1. Where did you spend most of your time?

2. Why didn't everyone follow the same path?

3. How does a rock become:

Igneous?

Sedimentary?

Metamorphic?

4. Each step of the rock cycle may take as little as 200,000 or as much as several million years. For these calculations, assume each roll of the die was 200,000 years.

a. How long was the entire rock cycle (in millions of years)?

b. How many years were you in each of the stations?

Station #	# of years
1	
2	
3	
4	
5	

6	
7	
8	
9	
10	
11	