

Crayon Lab

Purpose: The purpose of this activity is to take crayons and represent the different types of rocks.

Materials:

- 6-8 crayons (depending on size)
- clear glue
- Dixie cups
- paper plates
- wax paper
- scissors/X-ACTO knives (borrowed from the art room)
- microwave

Procedures:

1. Obtain 6-8 crayons from the crayon container. If the crayons are smaller or broken, use 8 crayons. Be sure to take the wrapper off the crayons before you proceed to step 2.
2. For the first 2 crayons, use either scissors or X-ACTO knives to shave your crayons into small pieces. When you are done, put them into a Dixie cup.
 - a. Pour some clear glue into your cup. Be sure not to add too much glue but enough to cover the crayon shavings.
 - b. Dump the cup onto some wax paper and put it on a paper plate. Add another piece of wax paper on top and put 4-5 textbooks on top. We are modeling compaction and cementation. Leave for the next 2 days.
3. For the next 2 crayons, break them up into small pieces (not as small as the shavings) and put them into another Dixie cup.
 - a. Pour your contents on a paper plate. We will be putting the crayons into the microwave for 5-10 second intervals. Be sure NOT TO MELT THE CRAYON. We want to add heat and then pressure to the rock.
 - b. When you have added enough heat (each crayon pieces vary but averages about 20 seconds), place a piece of wax paper on top and place 6-8 textbooks on top. We are modeling heat and pressure for our metamorphic rock. Leave for the next 2 days.
4. For the last 2 crayons, break in half and put into a Dixie cup.
 - a. Pour your contents into a heat resistant cup (We will use an evaporating dish). Mrs. Kessel will melt your crayon on a Bunsen burner. I will then pour into your original Dixie cup. Let cool for the next day.

Conclusion: Write one sentence of what you learned.

Questions: Reflect on what we did by answering these 2 questions in your lab book.

1. Which "rock" type did you like the best and why?
2. Did this lab help you better understand the rock formation? Why or why not?