Taffy Rocks

Materials - Each person should have:

- 1 piece of aluminum foil
- 2 different colored pieces of taffy
- A small spoon full of nerds

Procedure:

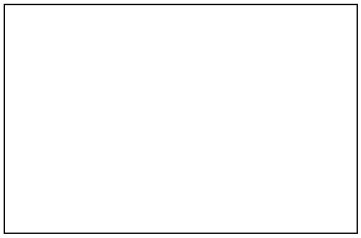
1. Tear both pieces of taffy in half
2. Stack all 4 pieces together while alternating colors
3. Gently press them together between your hands
4. Answer question 1 on you lab sheet
5. Begin to pull and twist your taffy from both sides. Do this for about 30 seconds
6. Answer question 2 on your lab sheet
7. Arrange your nerds on your aluminum foil
8. Answer question 3 on your lab sheet
9. Shape your taffy into a ball by rolling it around between your hands
10. Set your taffy ball in the middle of a small spoonful of nerds on the aluminum foil
11. Using a little pressure, begin to roll your taffy ball around allowing the nerds to stick to your taffy ball.
12. Once most of your nerds are attached to your taffy ball answer question 4 on your lab sheet
13. Begin to press, pull, and twist your taffy for about 30 seconds
14. Answer question 5 on your lab sheet
15. Only using 1 persons taffy, tear your taffy in half and set one half in the middle of your aluminum foil. Fold your foil around the taffy. This should look like a basket. Be sure all the edges of the foil are folded up and you can still see the taffy inside.
    - You can eat your other half of taffy rock
16. Use the hot plate and set the foil with the taffy inside onto the hot plate
    CAUTION: Be sure not to touch the hot plate
17. Observe for about 5-8 minutes
18. While observing, answer question 6 on your lab sheet
19. After about 5 minutes, use a tooth pick to gently move around your melted rock and observe what is happening to the “sediments” **(Be sure not to poke hole in the foil!!)
20. After about 8 minutes or when most of the taffy and “sediments” are melted, remove the foil and taffy from the hot plate and allow to cool.
20. Answer question 7 on your lab sheet

Taffy Rock Lab Sheet

1. a. What type of Metamorphic rock did you form? _____
   b. What rock forming process did you use to form this rock?

   _____

   Draw a picture of your rock

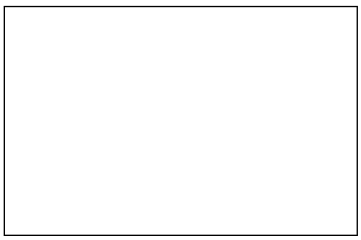


2. Describe what your taffy rock looks like now _____
_____

3. What do the nerds represent? _____

4. a. What type of rock does your taffy represent now? _____
   b. Is your rock conglomerate or breccia? _____

   Draw a picture of your rock



5. What rock forming processes did you use to form this rock? _____
_____

6. a. What does the hot plate represent? _____
   b. What process is being demonstrated using the hot plate? _____
   c. What does the taffy need to do in order to turn back in to a sold piece of candy?

   _____

   d. What type of rock did you just create? _____
   e. When your taffy rock cools do you think it would represent an intrusive or extrusive rock? Explain your reasoning. _____
_____
_____

7. Summarize how this lab demonstrates the rock cycle. _____
_____
_____
_____
_____