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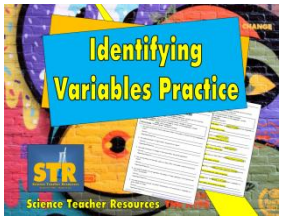

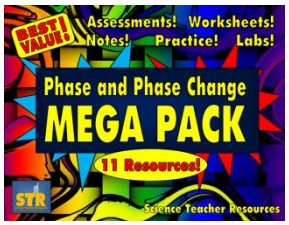

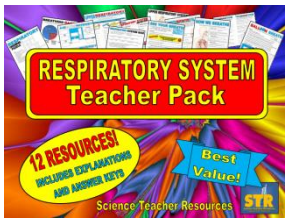

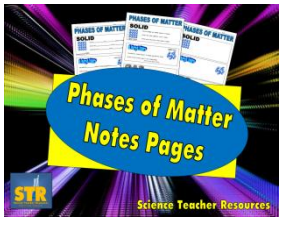

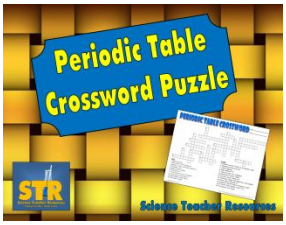

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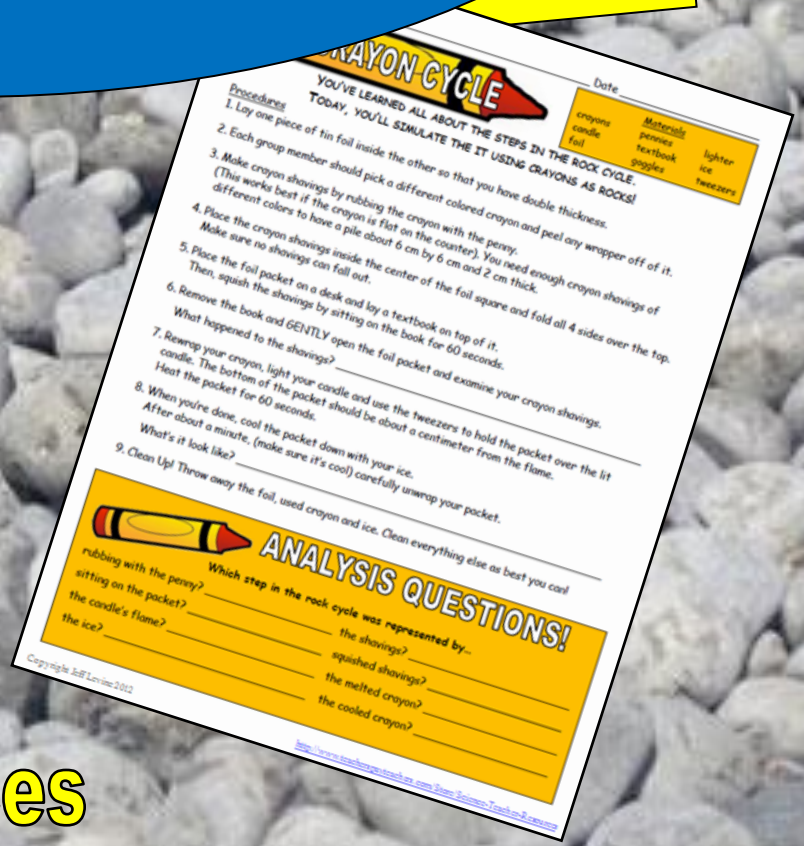
Rock Cycle Simulation Lab



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Included Resources

Resource Summary

Necessary Supplies/Materials

Crayon Cycle Lab Worksheet

Crayon Cycle Lab Worksheet Answer Key

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Resource Summary

Objective:
Students will be able to describe, compare, and model various rock cycle processes and components.

Notes:
This lab walks students through modeling rock cycle processes, and asks them to make analogies between the activity and the rock cycle.

Necessary Supplies/Materials

Crayon Cycle Lab Worksheet (included)
Crayon Cycle Lab Worksheet Key (included)

At each lab station:

- ~4 crayons
- ~4 pennies
- ~5 ice cubes
- lighter
- candle
- textbook
- foil
- safety goggles
- tweezers

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Name _____ Date _____

THE CRAYON CYCLE

Materials

crayons	pennies	lighter
candle	textbook	ice
foil	goggles	tweezers

YOU'VE LEARNED ALL ABOUT THE STEPS IN THE ROCK CYCLE.
TODAY, YOU'LL SIMULATE IT USING CRAYONS AS ROCKS!

Procedures

1. Lay one piece of tin foil inside the other so that you have double thickness.

2. Each group member should pick a different colored crayon and peel any wrapper off of it.

3. Make crayon shavings by rubbing the crayon with the penny.
   (This works best if the crayon is flat on the counter). You need enough crayon shavings of different colors to have a pile about 6 cm by 6 cm and 2 cm thick.

4. Place the crayon shavings inside the center of the foil square and fold all 4 sides over the top. Make sure no shavings can fall out.

5. Place the foil packet on a desk and lay a textbook on top of it.
   Then, squish the shavings by sitting on the book for 60 seconds.

6. Remove the book and GENTLY open the foil packet and examine your crayon shavings.

   What happened to the shavings? _____

7. Rewrap your crayon, light your candle and use the tweezers to hold the packet over the lit candle. The bottom of the packet should be about a centimeter from the flame.
   Heat the packet for 60 seconds.

8. When you're done, cool the packet down with your ice.
   After about a minute, (make sure it's cool) carefully unwrap your packet.

   What's it look like? _____

9. Clean Up! Throw away the foil, used crayon and ice. Clean everything else as best you can!

ANALYSIS QUESTIONS!

Which step in the rock cycle was represented by...

rubbing with the penny? _____ the shavings? _____

sitting on the packet? _____ squished shavings? _____

the candle's flame? _____ the melted crayon? _____

the ice? _____ the cooled crayon? _____

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5. Place the foil packet on a desk and lay a textbook on top of it.
   Then, squish the shavings by sitting on the book for 60 seconds.

6. Remove the book and GENTLY open the foil packet and examine your crayon shavings.

   What happened to the shavings? **They are kind of stuck together!**

7. Goggles on!
   Rewrap your crayon, light your candle and use the tweezers to hold the packet over the lit candle. The bottom of the packet should be about a centimeter from the flame.
   Heat the packet for 60 seconds.

8. When you're done, cool the packet down with your ice.
   After about a minute, (make sure it's cool) carefully unwrap your packet.

   What's it look like? **One solid piece – all different colors!**

9. Clean Up! Throw away the foil, used crayon and ice. Clean everything else as best you can!

ANALYSIS QUESTIONS!

Which step in the rock cycle was represented by...

rubbing with the penny? **weathering/erosion**

the shavings? **sediments**

sitting on the packet? **compaction/cementation**

squished shavings? **sedimentary rock**

the candle's flame? **Earth's heat**

the melted crayon? **magma/lava**

the ice? **cool crust/atmosphere**

the cooled crayon? **igneous rock**

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