The North Atlantic Current Investigation Activity

Student Handout 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions:

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| 45 minutes What do I need?(These materials should be in your container)   * Four identical small, wide-mouthed jars (baby food jars are perfect) * Pitcher marked “hot water” * Pitcher marked “cold water” * Cups * Table salt * Food coloring * Index cards (precut into squares) * A large, shallow baking pan (if you don't have one, do this activity in the sink--it can be messy) * Towel * Plastic spoon * Permanent marker | Mom and Daughter mixing ingredients |

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| What do I do?  1Take a piece of tape and label the four jars A-D with the permanent marker.  2Using the pitcher marked “cold”, pour water up to the neck of the jar A. Using the pitcher marker “warm”, pour water up to the neck of jars B, C, & D.  Add 6-8 drops of food coloring to each jar as follows:   1. Blue (cold) 2. Red (warm) 3. Green (warm, salt) 4. Yellow (warm, no salt) | 3Using the plastic spoon, scoop out 2 spoonfuls of salt and place it into Jar C. Stir until dissolved. |

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| 4Slowly add more water to the blue jar until you can see a bulge of water over the rim of the jar.  Add water till you see the bulge   |  |  | | --- | --- | |  | 6This part is very tricky. You may want to practice it a few times over the sink with a jar of plain water. Pick up the blue jar and turn it straight upside-down. You don't need to put your hand on the card. The water will hold the card in place. (Just flip the jar over. Don't hesitate. If the jar is tilted but not turned over completely, the water will gush out and make a mess.) |     Removing the card | Lay the card on top 5Lay the square card carefully onto the top of the blue jar. Tap the card gently with your finger. (Don't poke it. You want the card to be flat and form a seal with the water and the jar.)    Flip the jar over    7Put the upside-down blue jar right on top of the red jar.  8Have someone hold onto both jars while you very slowly and carefully pull the card out. Record observations. |

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| 9 Empty both jars. Rinse them. Repeat steps 1 through 6--but put the jar with the blue-colored cold water in the baking pan and put the card on top of the jar with the red-colored hot water. Turn the red jar upside-down and put it on top of the blue jar. Record observations.  10 Repeat steps 1 through 6 with the green and yellow jars. Record observations. Empty all jars once completed. |
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