

Name:

Date:

Experiment #: 38E – Origin of Marine Currents

Materials: Watch video of this experiment to complete this record.

- large transparent dish with capacity of about 1½ gallons
- water in large pitcher, ice cubes
- cooking pot about 4qt size
- burner, extension cord
- two eye droppers or pipettes, spoon
- red and blue food coloring
- clock

Procedure:

1. Bring to a boil about 3qts of water in the cooking pot on the burner set at high.
2. Pour boiling water into large dish and leave it for three minutes.
3. Add ice to remaining water in pitcher and stir while waiting for three minutes to pass.
4. Add about 2qts of cold water so that a cold layer of water forms at the bottom of the dish; do this very slowly along the edge of the large dish.
5. Using eye dropper or pipet, put a small amount of red food coloring into the water.
6. Using spoon, put some ice cubes into the water along an edge of the large dish.
7. Using eye dropper or pipet, put a small amount of green food coloring into water where ice is located.

Hypothesis:

Observations (Draw):

Observations (Write):

- How does the color move when it reaches the area where the two strata of water mix?

[illegible]

Conclusion:

New Experiment with One Altered Variable:

Variable:

-

Hypothesis:

-
-
-

Observations:

- _____
- _____
- _____

Conclusion:
