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| **Station #1: Density/Salinity Tanks***At this station you will observe how salt concentration can affect the density of water.* Procedure: 1. Write a hypothesis before beginning this activity, how does salt concentration affect the density of water?
2. Select one cup that contains freshwater (green) and one cup that contains saltwater (yellow).
3. Pour two cups of water into the clear container at the same time.
4. Observe how the green and yellow water appear when mixed together and record your observations.
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| **Station #2: Density/ Temperature Tanks***At this station you will observe how temperature differences can affect the density of water.*Procedure: 1. Write a hypothesis before beginning this activity, how does temperature affect the density of water?
2. Select one cup that contains cold water (blue) and one cup that contains hot water (red).
3. Pour two cups of water into the clear container at the same time.
4. Observe how the blue and red water appear when mixed together and record your observations.
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| **Station #3: Canyons in Pie Pan With Confetti***At this station you will be blowing into a straw to model convergence zones.*Procedure: 1. Write a hypothesis before beginning the activity, how will wind affect the “confetti”?
2. Draw the confetti placement in your data table labeled “confetti before”.
3. At the same time, you and your partner will each blow into the straws on opposite sides of the pie tin.
4. Draw the confetti placement in your data table labeled “confetti after”.
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| **Station #4: Reynold’s Number Demonstration***At this station, you will examine how Reynold’s number affects an organism's ability to move through the ocean.*Procedure: 1. Consider what differs between the four cups on the table.
2. Read through the procedure and make a hypothesis about what you will observe before conducting the experiment.
3. One at a time, drop a marble into each cup and record observations of how it lands.
4. For the cups where the marble travels all the way to the bottom, gently swirl the cup and record how the marbles movement is affected by the motion of the fluid.
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