

Vame		

Magnetic "Hydrojet" Worksheet

Observations

	Sketch a pict	ture of the initial	setup, including	the location	of the dror	of food dve.
--	---------------	---------------------	------------------	--------------	-------------	--------------

Sketch a picture of the final result, including the direction of the motion of the dye, and explain what occurred.

Additional Observations

Post-Demonstration Questions

- 1. Which of Newton's three laws of motion provides the basis for a rocket propulsion-type engine. Define the law(s) chosen.
- 2. Write the balanced chemical equation for the electrophoresis of water.
- 3. A negatively charged electron is traveling to the right, and a magnetic field is pointing towards the top of the page. Which direction does the particle rotate once it encounters the magnetic field?
- 4. Do you believe this magnetohydrodynamic system could be used to push a submarine? Why or why not?