Name _____ Date _____

Ferrofluid Observations

Part 1. Complete the table below as you complete the steps in the ferrofluid investigation. Be sure to include units of measurement. Describe observations as thoroughly as possible. Provide measurements in centimeters of spikes as they begin to appear. Then answer the questions.

Oil Added (mL)	Toner Added (mL)	Observations

Questions

1. What criteria would you use to identify the "best" results (the best spikes)? _____
   _____
2. What mixture produced the best results? _____

Part 2. Hold the magnet directly on the side of the preform and gather the ferrofluids to the magnet. Slowly pull the magnet away from the preform. Measure and record the distance in centimeters in the table below. Then record your observations. Repeat the process 3 or 4 times. Then answer the questions.

Measurements (in centimeters)	Observations

Draw Conclusions

1. What do you observe happens with the ferrofluids as you move the magnet? _____
   _____
   _____
2. Why do you think that happens?_____
   _____
3. What evidence or reasoning can you provide to support your conclusion?
   _____
   _____