



Unit 4: Chemical Reactions

Lesson 12: Attractive Molecules

Guiding Question: How can we predict how substances will interact with each other based off of their types of attraction?

Do Now:

- Why does oil not dissolve in water? Describe what you think is happening with the oil molecules and water molecules.

Lesson #12- Attractive Molecules

Purpose

To observe the response of certain liquids to an electrical charge and the behavior of the same liquids as droplets

Part 1: Testing the Liquids

We will test each liquid with a charged wand. Next place a drop of the liquid on wax paper. Enter the results in the table.

Compound	Effect of charged wand	Behavior on waxed paper
water	attracts	round drop
acetic acid		
isopropanol		
hexane		

Part 1: Analysis

Directions:

1. You will have 10 minutes to answer all analysis questions on page 3-4.
2. Once the timer goes off, we will share out our answers to the class.

Shaving Cream Science

1. Place some shaving cream in clear bin.
2. You only need enough to lay one note card in and have a little room around it.
3. Next, add a few drops of food coloring (I had students pick 2 colors and I added about 3-5 drops of each).
4. Swirl it around and make a pattern (glass stir rods are good for this, but fingers work too). **DO NOT OVER MIX!** You want a pattern in the shaving cream, not colored shaving cream.
5. Gently press down the notecard into the shaving cream and lift it up. Using their fingers or a paper towel, scrape the shaving cream on the card into the trash can at front. **No rinsing required.** Allow to air dry.
6. Clean up by scraping shaving cream into trash and washing everything with soap and water. Cards can air dry and be taken home the same day.

Closure

- Review Stations worksheet is due Friday, 3/9.
- Quiz #3 Review is due Friday, 3/9
- Achieve 3000: The Car that Runs on Chocolate is due 3/9 at 11:59pm