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## PATRIOTIC DENSITY COLUMN

### Ingredients

- Rubbing Alcohol
- Water
- Blue Dawn Dish Soap
- Red Food Coloring
- Tall Transparent Glass



### Instructions

STEP 1: Add the red food coloring to the rubbing alcohol and mix.

STEP 2: Slowly pour equal amounts of the rubbing alcohol, water, and blue Dawn dish soap starting with the blue Dawn dish soap, then the water, and finally the rubbing alcohol.

### Explanation

The rubbing alcohol, water, and blue Dawn dish soap all separated in the tall transparent glass since each ingredient has a different density. The density of a material is defined as its mass per unit volume. The ingredients with a higher density will sink below those ingredients with a lower density.

| INGREDIENT          | DENSITY |
|---------------------|---------|
| Rubbing Alcohol     | 0.87    |
| Water               | 1.00    |
| Blue Dawn Dish Soap | 1.03    |

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