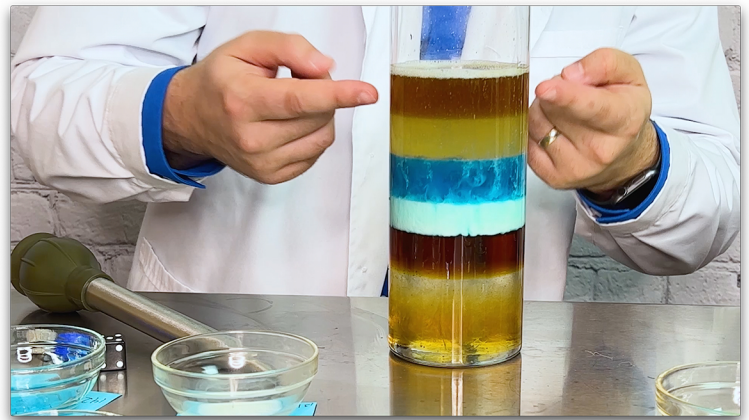


MAKING A DENSITY COLUMN!



Have you ever seen a tower made of different kinds of liquids all stacked up on top of each other?

This is possible by using liquids with different densities; how closely packed the molecules are!



MATERIALS

EQUAL PORTIONS OF LIQUID MATERIAL, WE'RE USING 3 OUNCES OF EACH:

- HONEY
- CORN SYRUP
- MAPLE SYRUP
- WHOLE MILK
- DISH SOAP
- WATER
- VEGETABLE OIL
- RUBBING ALCOHOL
- LAMP OIL

OTHER ITEMS YOU'LL NEED:

- CLEAR COLUMN CONTAINER
- 9 RAMEKINS OR CUPS
- TURKEY BASTER
- FOOD COLOURING

YOU'LL WANT SMALL HOUSEHOLD ITEMS OF VARYING WEIGHT TO TEST THEIR DENSITY AGAINST THE LIQUID COLUMN. SOME EXAMPLES ARE: MARBLE, POPCORN KERNEL, GAME DIE, PLASTIC SODA CAP, BIRTHDAY CANDLE, SCREW, STRAWBERRY.



PROCEDURE

1. POUR EQUAL AMOUNTS OF EACH LIQUID INTO CONTAINERS.
2. WEIGH THE LIQUIDS AND RECORD THE WEIGHT. PUT THEM IN ORDER FROM HEAVIEST TO LIGHTEST.
3. CAREFULLY POUR THE HEAVIEST INTO YOUR COLUMN CONTAINER. USE THE TURKEY BASTER TO CAREFULLY ADD THE REST, IN ORDER OF HEAVIEST TO LIGHTEST.
4. AFTER YOUR COLUMN IS BUILT, DROP YOUR HOUSEHOLD ITEMS IN, ONE AT A TIME, AND SEE WHERE THEY STACK UP!

