



Taste the rainbow

What you need:

WATER
A MUG
5 SMALL CUPS
TABLESPOON
A CLEAR GLASS
EYE DROPPER
SMALL BAG OF SKITTLES



SUCH A WASTE OF
GOOD CANDY...

What to do:

PLACE THE FOLLOWING CANDIES IN THEIR OWN SEPARATE CUPS: 2 RED, 4 ORANGE, 6 YELLOW, 8 GREEN, AND 10 PURPLE.
HAVE AN ADULT HEAT A MUG OF WATER IN THE MICROWAVE FOR A MINUTE AND A HALF (IT DOESN'T NEED TO BOIL.)
POUR TWO TABLESPOONS OF HOT WATER IN EACH CUP AND STIR CAREFULLY. STIR EVERY FEW MINUTES UNTIL THE MIXTURE REACHES ROOM TEMPERATURE.
USING THE DROPPER, TRANSFER THE PURPLE WATER TO THE CLEAR GLASS. CAREFULLY TRANSFER THE GREEN LIQUID TO THE GLASS BY SLOWLY RELEASING THE LIQUID AGAINST THE SIDE OF THE GLASS. YOU WANT TO CREATE A LAYER OF GREEN ABOVE THE PURPLE.
REPEAT THIS TRANSFER PROCESS WITH THE YELLOW, THEN ORANGE, AND THE RED LIQUID LAST.
IF YOU ARE PATIENT, YOU SHOULD HAVE A FIVE-LAYER RAINBOW IN YOUR GLASS!

What's going on?

THE DENSITY OF WATER IN EACH CUP INCREASES FROM RED TO PURPLE BECAUSE OF THE EXTRA SUGAR DISSOLVED IN THESE CUPS. DENSITY IS THE AMOUNT OF MATTER (SUGAR) FOUND WITHIN A CERTAIN AMOUNT OF A SUBSTANCE (WATER.) SINCE THE PURPLE LIQUID IS THE MOST DENSE, IT WILL STAY ON THE BOTTOM OF THE GLASS. THE GREEN IS A LITTLE LESS DENSE SO IT WILL FLOAT ON TOP OF THE PURPLE. THE YELLOW IS LESS DENSE THAN THE GREEN AND SO ON...