

THIS WEEK: CHANGING WATER



DID YOU KNOW THAT WATER IS ALWAYS CHANGING? LIKE ICE IS FROZEN WATER. AND WHEN IT MELTS, IT CHANGES BACK TO LIQUID.

LET'S HAVE A MELTING RACE. WE TAKE TWO ICE CUBES AND TRY TO MAKE ONE MELT FAST AND THE OTHER SLOW.

YOU TRY IT!

THIS ONE HARDLY MELTED AT ALL!

THIS ONE IS COMPLETELY MELTED. THAT MEANS I WIN THE MELTING RACE!

THAT'S ONE WAY TO PUT IT. LET'S PUT THEM IN THE FREEZER TO MAKE THE WATER TURN BACK TO ICE, AND TRY AGAIN.

DID YOU KNOW THAT LIQUIDS TURN INTO GAS IN THE AIR? LOOK, I JUST SPRAYED TINY DROPS OF WATER ON THIS DARK PLASTIC PLATE. I PUT A CUP UPSIDE-DOWN OVER SOME OF THE WATER.

LET'S SEE IF THE WATER UNDER OR OUT OF THE CUP CHANGES TO GAS FASTER.

YOU TRY IT!

LET'S SEE IF WE CAN GET GAS BACK OUT OF THE AIR BY MAKING THE AIR NEXT TO A CAN COLD.

WE CAN PUT ICE CUBES IN A CAN, AND SEE IF TINY DROPLETS OF WATER COLLECT ON THE OUTSIDE OF THE CAN AS THE GAS CONDENSES INTO LIQUID.

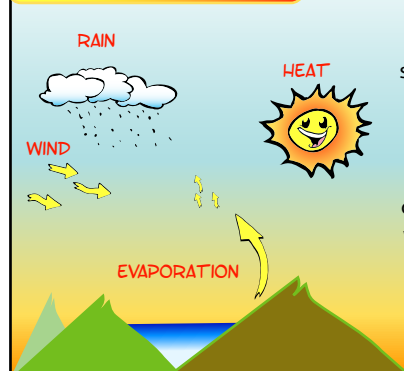
YOU TRY IT!

WHAT ARE YOU DOING NOW, MATEO?

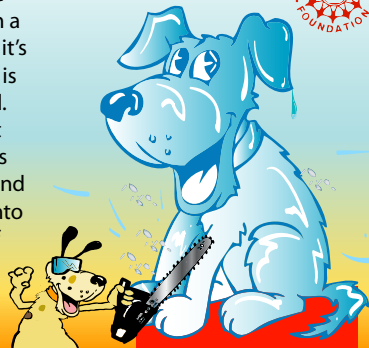
I'M BURPING INTO THE ICE CUBE TRAY. I WANT TO SEE IF IT WILL TURN INTO BURPSICLES IN THE FREEZER.

DON'T YOU TRY IT!

SO WHAT? ...



Almost all substances can be solid, liquid, or gas, depending on the temperature and pressure. When a substance changes among these, it's called phase change. When heat is added to ice, it melts into liquid. When heat is added to liquid, it evaporates into gas. When gas is cooled, it condenses into liquid. And when liquid is cooled, it freezes into ice. Water is a great example of phase change.



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