



Water Bender



I'VE GOT
SKILLS...

What you need:

PLASTIC COMB OR MARKER
FAUCET
WOOL FABRIC (OPTIONAL)

What to do:

TURN THE FAUCET ON AND HAVE A VERY THIN STREAM OF WATER FLOWING INTO THE SINK.

RUB THE COMB OR MARKER THROUGH YOUR HAIR OR A PIECE OF WOOL SEVERAL TIMES.

SLOWLY BRING THE PLASTIC OBJECT TOWARDS THE STREAM OF WATER. DO NOT ALLOW THEM TO TOUCH! THE STREAM OF WATER SHOULD BEND AS YOU BRING THE OBJECT CLOSE!

What's going on?

ALL OBJECTS ARE MADE OF ATOMS WHICH CONTAIN TWO DIFFERENT CHARGED PARTICLES - NEGATIVELY-CHARGED ELECTRONS AND POSITIVELY-CHARGED PROTONS. WHEN YOU RUB THE PLASTIC OBJECT AGAINST YOUR HAIR OR THE PIECE OF WOOL, THE TINY ELECTRONS JUMP FROM YOUR HAIR AND ONTO THE PIECE OF PLASTIC (THE PROTONS STAY WHERE THEY ARE... THEY DO THIS ALL THE TIME!) PROTONS AND ELECTRONS ARE ATTRACTED TO EACH OTHER VERY WELL. SO, ONCE YOU HAVE A BUNCH OF NEGATIVELY-CHARGED ELECTRONS IN ONE AREA (LIKE YOUR COMB) AND YOU BRING THEM CLOSE TO ANOTHER SOURCE OF PROTONS (LIKE IN THE WATER MOLECULES) THEY TEND TO PULL ON ONE ANOTHER LIKE A PAIR OF MAGNETS. THIS FORCE IS VISIBLE WHEN THE WATER STREAM BENDS TOWARDS THE CHARGED PLASTIC COMB.