

CORN PLASTIC



ILCORN
WWW.ILCORN.ORG

FUN ACTIVITY

NATIVE AMERICANS FIRST BEGAN GROWING CORN IN NORTH AMERICA AT LEAST 3,000 YEARS AGO. CORN IS NOW AMERICA'S #1 FEED GRAIN CROP. THE TOP CORN PRODUCING STATES ARE IOWA, ILLINOIS, NEBRASKA AND MINNESOTA. OTHER STATES IN AMERICA'S "CORN BELT" INCLUDE INDIANA, WISCONSIN, SOUTH DAKOTA, MICHIGAN, MISSOURI, KANSAS, OHIO AND KENTUCKY.

CORN IS AN IMPORTANT RENEWABLE RESOURCE. THERE ARE THOUSANDS OF USES FOR THIS VALUABLE CROP, NOT ONLY AS FOOD FOR HUMANS AND LIVESTOCK, BUT FOR MANY OTHER PRODUCTS AS WELL. THESE USES INCLUDE:

- ETHANOL - AN ENVIRONMENTALLY FRIENDLY FUEL THAT, WHEN BLENDED WITH GASOLINE, REDUCES GREENHOUSE GAS EMISSIONS FROM VEHICLES BY 40-50%. USING ETHANOL-BLEND FUELS HELPS REDUCE OUR DEPENDENCE ON FOREIGN OIL IMPORTS.
- PRINTING INK - CORN-BASED INK CAN BE USED IN PLACE OF REGULAR PRINTER'S INK, WHICH IS MADE FROM PETROLEUM PRODUCTS - ANOTHER WAY TO REDUCE DEPENDENCE ON IMPORTED OIL!
- CORN STARCH - CORN STARCH IS A KEY INGREDIENT IN THOUSANDS OF CORN PRODUCTS. IT IS FOUND IN CAMERA FILM, CANDLES, SHOESTRINGS, CHARCOAL BRIQUETTES, CRAYONS, DETERGENTS, WOOD PRODUCTS, ADHESIVES, FIREWORKS, MEDICINES, PAPER, CARDBOARD, AND BIODEGRADABLE PLASTICS.

MATERIALS NEEDED:

- CORNSTARCH
- MEASURING SPOONS
- CORN OIL
- WATER
- MEDICINE DROPPER
- FOOD COLORING
- MICROWAVE
- SANDWICH-SIZE RESEALABLE PLASTIC BAG

PROCEDURE:

- PLACE A TABLESPOON OF CORNSTARCH IN A RESEALABLE PLASTIC BAG.
- ADD TWO DROPS OF CORN OIL TO THE CORN STARCH.
- ADD ONE AND A HALF TABLESPOONS OF WATER TO THE OIL AND CORNSTARCH.
- STIR THE MIXTURE.
- ADD TWO DROPS OF FOOD COLORING TO THE MIXTURE AND STIR WELL.

SCIENTIFIC OBSERVATIONS:

- WHAT DO YOU NOTICE ABOUT YOUR BIODEGRADABLE PLASTIC?
- IS YOUR BIODEGRADABLE PLASTIC THE SAME AS OTHER STUDENTS' PLASTIC?
- WHAT COULD YOU MAKE WITH THIS BIODEGRADABLE PLASTIC IF YOU LET IT HARDEN?

MICROWAVE YOUR BIODEGRADABLE PLASTIC FOR 20-25 SECONDS ON HIGH:

- WHAT HAPPENS TO YOUR PLASTIC?
- FORM YOUR PLASTIC INTO A BALL AND DESCRIBE WHAT IT WILL DO.

