

DISAPPEARING HIGHLIGHTER

MATERIALS

- LEMON
- WHITE PAPER
- YELLOW HIGHLIGHTER
- KNIFE (+ADULT HELP)



INSTRUCTIONS

1. DRAW A DESIGN ON A PIECE OF WHITE PAPER WITH YELLOW HIGHLIGHTER.
2. HAVE AN ADULT CUT A SLICE OF LEMON.
3. RUB THE CUT SIDE OF THE LEMON DIRECTLY ONTO THE YELLOW HIGHLIGHTER MARKS ON THE PAPER.
4. CONTINUE RUBBING THE LEMON ONTO THE HIGHLIGHTER UNTIL IT BEGINS TO FADE AND DISAPPEAR.

EXPLANATION

YELLOW HIGHLIGHTER INK HAS A SPECIAL FLUORESCENT DYE IN IT CALLED PYRANINE THAT CAN CHANGE COLORS WHEN AN ACID LIKE LEMON JUICE IS ADDED TO IT. THE COLOR THAT THE DYE CHANGES TO IS ALMOST INVISIBLE.

EXTENSION

AFTER MAKING THE HIGHLIGHTER CHANGE COLOR WITH LEMON JUICE, ADD A SPRINKLE OF BAKING SODA ON TOP. LET IT SIT ON THE PAPER FOR A MINUTE OR TWO AND THEN BRUSH IT OFF. YOU SHOULD BE ABLE TO SEE THE HIGHLIGHTER AGAIN.