

MAKE A COMPASS

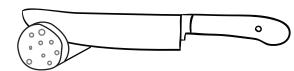


SUPPLIES

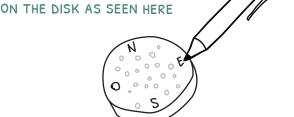
- NEEDLE
- MAGNET
- BOWL OF WATER
- ORK TOP
 OR A PIECE OF STYROFOAM
 - SERRATED KNIFE
 - PEN

WRITE THE FOUR CARDINAL POINTS

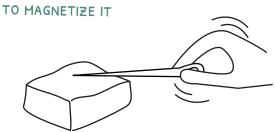




GETTING HELP FROM AN ADULT,
CUT A SLICE OF A CORK TO OBTAIN A THIN DISK



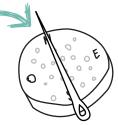
RUB THE POINTED SIDE OF THE NEEDLE AGAINST A MAGNET FOR AT LEAST 50 TIMES ALWAYS IN THE SAME DIRECTION IN ORDER





PLACE THE MAGNETIZED NEEDLE ON THE CORK DISK WITH THE POINT ON THE N THAT YOU WROTE ON IT







CAREFULLY PLACE THE CORK DISK WITH THE NEEDLE IN THE BOWL OF WATER



THE NEEDLE OF YOUR COMPASS AUTOMATICALLY LINES UP WITH THE EARTH'S MAGNETIC fIELD INDICATING NORTH







THE NEEDLE CONTAINS IRON WHOSE PARTICLES ARE ARRANGED IN RANDOM DIRECTIONS.



WHEN YOU MAGNETIZE THE NEEDLE USING
THE MAGNET THE PARTICLES IN THE IRON
ORIENT THEMSELVES ALL IN THE SAME DIRECTION.

OUR EARTH IS SO RICH WITH IRON
THAT IT ACTS LIKE A HUGE MAGNET,
CREATING A MAGNETIC FIELD THAT ALIGNS
THE MAGNETIZED NEEDLE IN THE SAME
DIRECTION OF THE POLES,
JUST LIKE A COMPASS.