FRANKENSTEIN'S MATZAH

SUPER SEDER SCIENCE

PARTING THE SEA EXPERIMENT

QUESTION: WHAT HAPPENS TO THE SURFACE TENSION OF THE WATER WHEN YOU DROP SOAP ON IT?

MATERIALS

- ☐ PEPPER
- ☐ BOWL OF WATER
- ☐ DISH SOAP

DIRECTIONS:

1) FILL BOWL WITH WATER.
2) SPRINKLE PEPPER ON THE WATER.
3) DROP A DOT OF DISH SOAP IN THE CENTER OF THE WATER.

USE YOUR SCIENTIFIC METHOD SHEET TO RECORD YOUR OBSERVATIONS.

WHAT'S HAPPENING?

WATER MOLECULES LIKE TO STICK TO EACH OTHER. AT THE SURFACE, THEY PULL TOGETHER AND MAKE THE TOP OF THE WATER ACT A LITTLE BIT LIKE A THIN SHEET. WHEN YOU ADD SOAP, IT BREAKS THAT WATER "SHEET OR SKIN." THE WATER SPREADS OUT, AND THE PEPPER QUICKLY MOVES AWAY FROM THE SOAP. THE SOAP CHANGES HOW THE WATER STICKS TOGETHER!

DOES ANYTHING ELSE BREAK THE WATER'S 'SKIN' LIKE SOAP DOES?

SURFACE TENSION