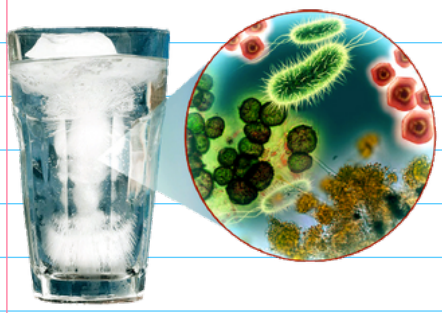
CAN YOU DRINK THAT?



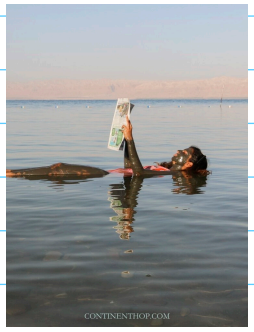
→ A SCORE. MEASURABLE

WATER QUALITY DESCRIBES HOW PURE THE WATER IS. → THE AMOUNT OF SUBSTANCES IN IT.

→ WATER IS NEVER 100% PURE IN NATURE

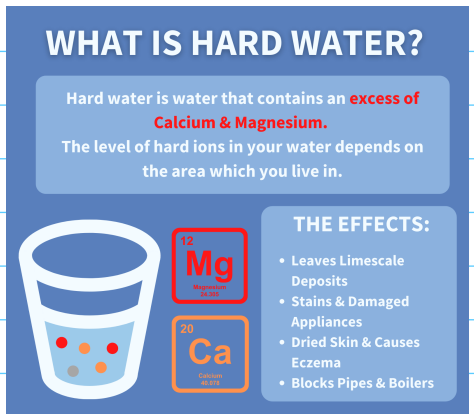
- SALT ($NaCl$) IS MOST COMMON SUBSTANCE FOUND IN WATER
  - SEAWATER HAS ↑ SALINITY THAN FRESH WATER (DUH!)
    - AVERAGE SALINITY = 3.5%

→ THE TOTAL AMOUNT OF SALT DISSOLVED IN H_2O



↑ THE DEAD SEA
34.2% → 9.6x SALTIER THAN OCEAN.

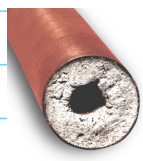
- OTHER SUBSTANCES MAYBE FOUND IN H_2O:
  - MICROBIAL CONTAMINANTS
  - INORGANIC " "
  - PESTICIDES / HERBICIDES
  - RADIOACTIVE CONTAMINANTS
  - GOLD & SILVER!



HARD WATER

- AS H_2O FLOWS UNDERGROUND IT PICKS UP MINERALS
- → H_2O HIGH IN IRON CAN REALLY AFFECT TASTE
- → CALCIUM & MAGNESIUM
  - → H_2O W/ HIGH Ca & Mg OFTEN DOESN'T LATHER
  - → CAN CLOG UP PIPES.

CALCIUM
MAGNESIUM



ORGANISMS in WATER

- FRESH WATER contains ORGANISMS / ORGANIC MATTER
- SOME GOOD / SOME BAD
  - E. COLI → 
- WATER TREATMENT REMOVES THESE SUBSTANCES.

WHAT MAKES H_2O POTABLE?

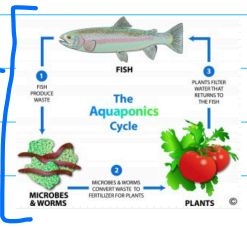
USUALLY IF IT'S
- CLEAR
- ODORLESS
- TASTELESS

- PROBLEMS HAPPEN WHEN Pollutants SEEP into H_2O and CANNOT BE BROKEN DOWN NATURALLY.

WATER TREATMENT PLANTS

- SPEEDS UP filtering PROCESS that happens NATURALLY.

AQUAPONICS



- Waste water supplies nutrients for plants, which then purifies the water.

The Water Treatment Process

