

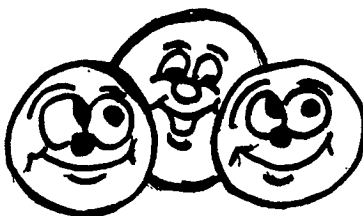
## Problem Solving Activity: THE CASE AGAINST WATER

**BACKGROUND:** Water has been accused of being an element by an assistant district attorney. You are the defense attorney for water ( $H_2O$ ) and it is your job to convince the jury that water is a compound.

### TASK:

1. Write a brief summation to the jury to make your case. Use only the very best scientific information in your case.
2. Design an experiment showing that:
  - water is a compound
  - salt water is a solution, not a pure substance;

\*\*\* Be sure to include the problem statement, your hypothesis, data acquired, and your conclusion.



$H_2O$

ELEMENT???

NOT GUILTY !!!!!!!

GUILTY !!!!!!!

COMPOUND???