

REINFORCEMENT

Composition of Matter.

Text Pages 220-225

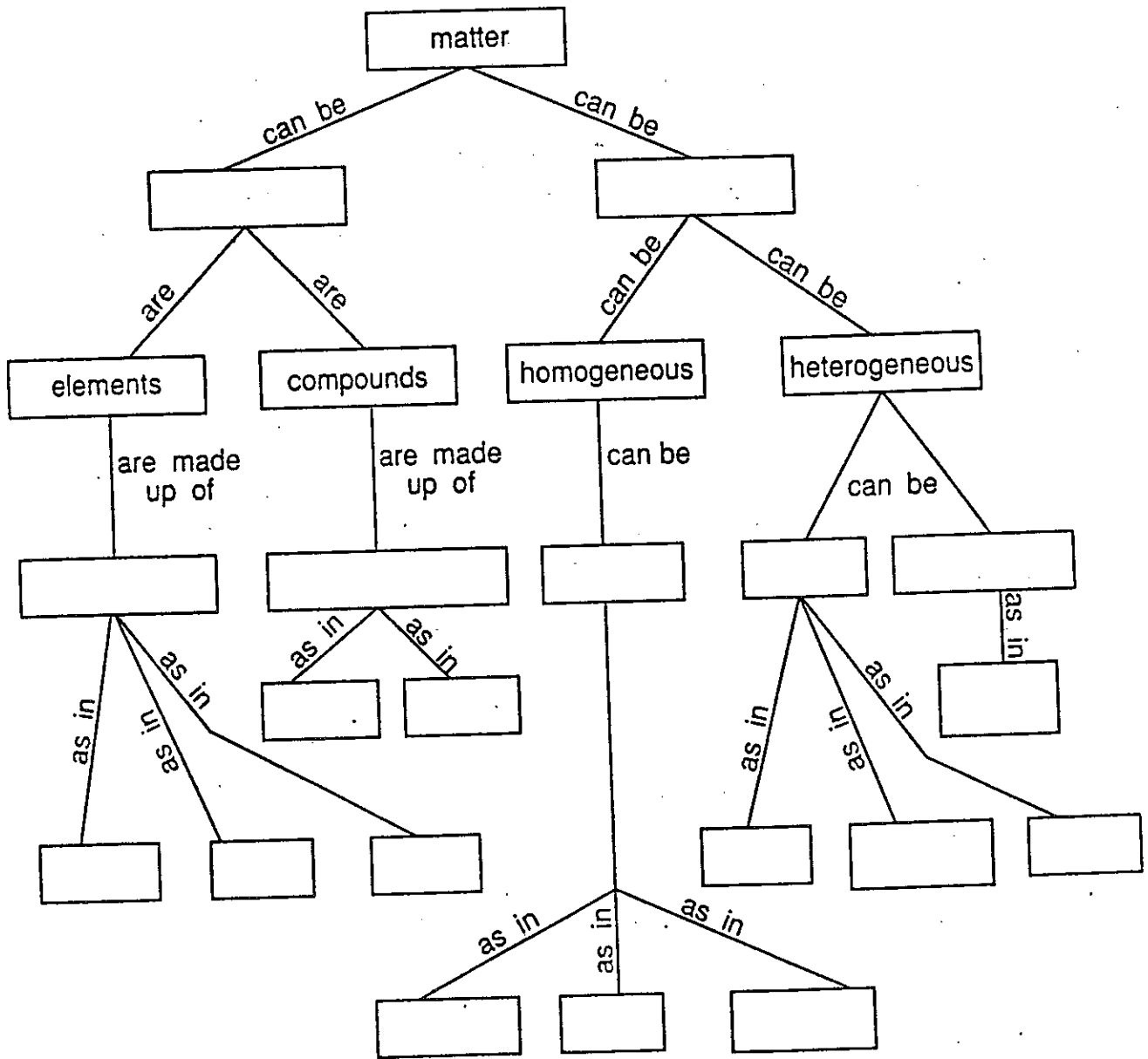
Use the words listed below to correctly complete the concept map.

atoms (different)
gold
oxygen
solutions
vinegar

atoms (same)
iron
salt
substances
water

colloids
mixtures
smoke
suspensions
whipped cream

fog
muddy water
soft drinks
syrup



Describing Matter

Complete the following by filling in each blank with the correct term.

Scientists try to explain how changes in substances take place. By applying energy, you can tear a sheet of paper into pieces and cause a(n) _____ in the paper. If you place a balloon filled with air into the refrigerator, the balloon will get smaller. The balloon undergoes a(n) _____. On a hot summer day, water vapor will condense into water droplets on the outside of a glass of iced tea. The glass of iced tea is a(n) _____ of sugar, tea, lemon, and water. Ice is water in the solid state. The density of ice is less than that of liquid water. Therefore, ice floats on the tea. The melting point of ice is 0°C. This temperature is also the freezing point of liquid water. Water is a clear, colorless _____ at room temperature. The words *clear* and *colorless* describe two _____ of water. The melting of the ice in iced tea is a(n) _____.

In comparison, a(n) _____ produces new substances. When a candle burns, physical and _____ changes take place. The _____ of the wax is a physical change. The melted wax is now in the liquid state. However, when burning occurs, a(n) _____ takes place. The melted wax, as it burns, combines with gaseous oxygen in air. After the chemical change, water vapor and carbon dioxide gas are formed. The mass of all substances before a chemical change _____ the mass of all substances after a chemical change.