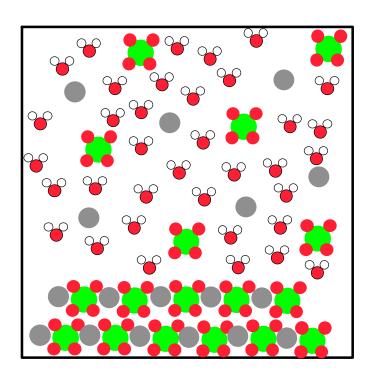
Magnesium Ion: Mg²⁺

Water Molecule: H₂O

Sulfate Ion: SO₄2-

Magnesium Sulfate: MgSO₄

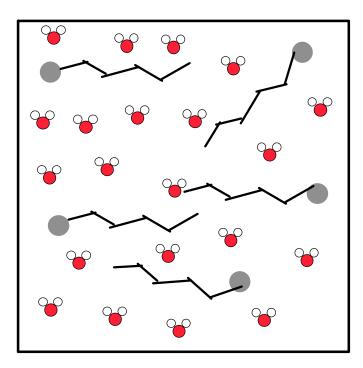


Magnesium Sulfate (MgSO₄) dissolved in water (with some solid remaining at the bottom)

Magnesium Ion: Mg²⁺

₩ Water Molecule: H₂O

Soap Molecule: C H and O



Magnesium ions react with soap molecules, sticking together

(now the soap cannot react with dirt or make bubbles)