

Water is a liquid at room temperature (unlike other similarly massed molecules): (Start video at time 3:24)

- 1) O₂, N₂, CO₂, and H₂O all have similarly low molar masses. However, water is a liquid at room temperature, and the others are gases. Why is this?
- 2) Why are liquids more useful to life than gases?

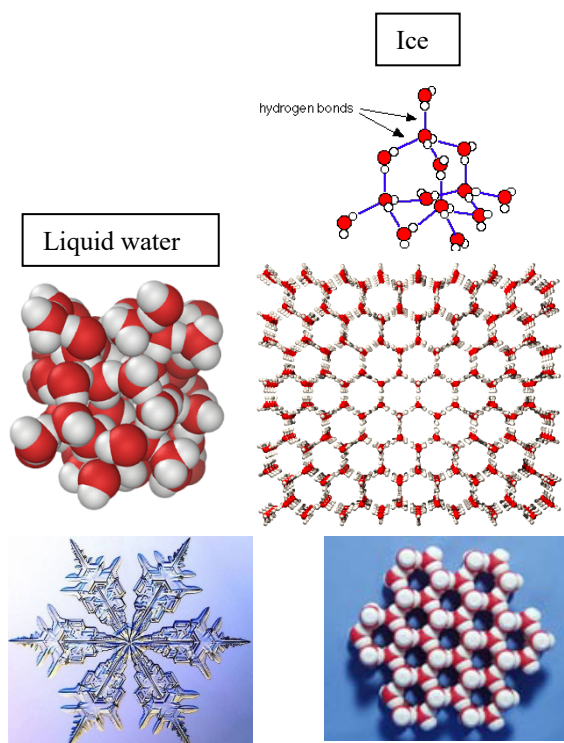
Ice is less dense than liquid water:

- 3) Why is it so important to life that ice floats on water?

- 4) For almost all substances other than water, the solid state is (**more, less**) dense than the liquid state.

- 5) Why is solid ice less dense than liquid water?

- 6) What is similar about the molecular structure of ice and snowflakes?



Water is often called the “universal” solvent (Can end video at time 19:09)

- 7) Why is water able to dissolve both ionic (ex: NaCl) and polar substances (ethyl alcohol)?
- 8) What type of substance doesn't water mix with? _____
- 9) List some benefits of water being a “universal” solvent.
- 10) List some potential harms/dangers of water being a “universal” solvent.