

DAY TWO

**Polar**

**Non-polar**

# Jumpstart 2-A

- 1) Look at the molecules you drew for Jumpstart 1-A – redraw them and label them polar or non-polar
- 2) Remember how the lewis structure of water is bent? Is it polar or non-polar? If you drew it straight instead of bent why would that lead you to the wrong answer of polar or non-polar?

# **Properties due to Intermolecular Forces**

TASK	Description	Observations
Penny		
Mixing		
Burettes		
Hot Plates		

TASK	Conclusions about forces
Penny	
Mixing	
Burettes	
Hot Plates	

Target: I can make conclusions about the molecular forces present based on observable properties

Blank area for student work.

K	C	Q
---	---	---

# Vocabulary

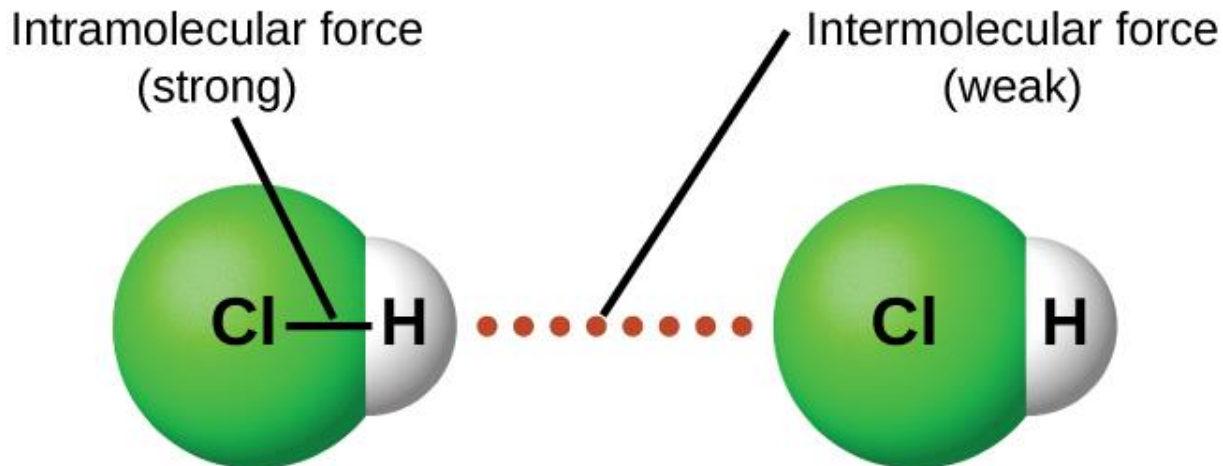
## INTRAmolecular Forces

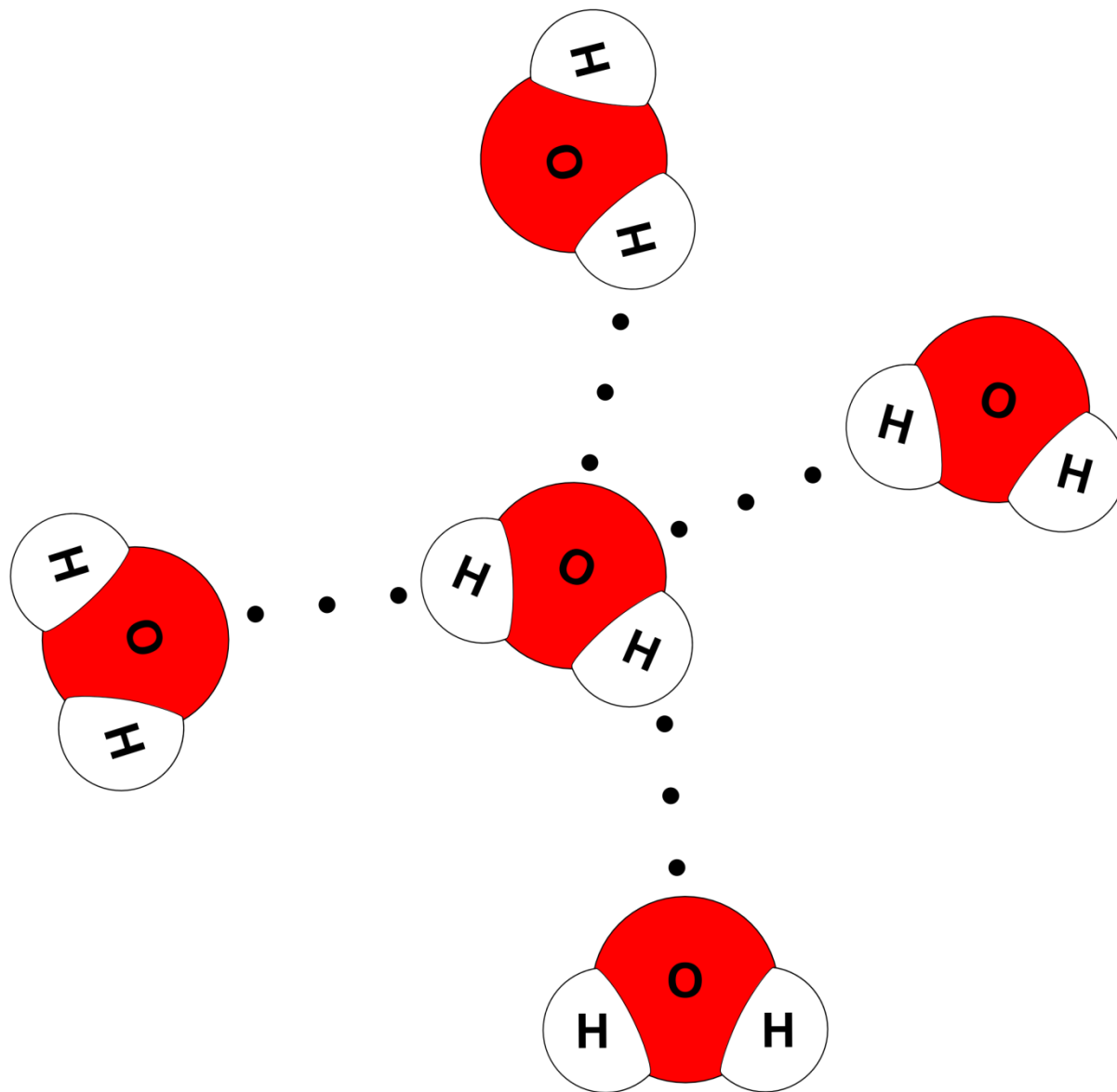
Forces holding together the atoms **INSIDE** a molecule or compound.

**Types:** Ionic forces, covalent forces

## INTERmolecular Forces

Attractions or repulsions which act **between neighboring molecules**





# Some properties that relate to intermolecular forces

Boiling point Melting point Viscosity Surface tension	↑ forces = ↑	
Mixing	“Like dissolves like”	
	Polar with polar	Non-polar with non-polar



- <https://www.youtube.com/watch?v=oha19yMZ8lc>

TASK	Description	Observations
Pennies		
Mixing		
Burettes		
Hot Plates		

TASK	Conclusions about forces
Pennies	
Mixing	
Burettes	
Hot Plates	

**Target: I can make conclusions about the molecular forces present based on properties**

K	C	Q
---	---	---