

# CHEMISTRY HOMEWORK SHEET

NAME \_\_\_\_\_

13	26
Al	Al
26.98154	13 protons 13 electrons 13 neutrons



List the 3 intermolecular forces in order from weakest to strongest:

\_\_\_\_\_ (weakest)

\_\_\_\_\_ (strongest)

Fill in the table below:

Substance 1	Intermolecular Force	Substance 2	Intermolecular Force	Which substance is less polar? (1, 2, or neither)	Which substance has a lower boiling point?
methane		methanol			
PCl <sub>3</sub>		Br <sub>2</sub>			
ammonia		methane			
water		CH <sub>3</sub> OH			
C <sub>10</sub> H <sub>22</sub>		C <sub>2</sub> H <sub>8</sub>			
Cl <sub>2</sub>		I <sub>2</sub>			

Discuss how boiling points of substances are related to intermolecular forces. Explain your answer in terms of heat energy.