

Preliminary Quiz
Gas Properties.

- a. What is another word for average kinetic energy?

Temperature

- b. What are the two most common units of temperature in science?

C° K

- c. Convert 25°C to kelvin.

$$25 + 273 = 298$$

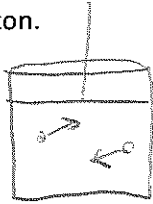
- d. According to the kinetic molecular theory, describe what happens to gas particles as they are heated?

move faster

- e. A car tire warms up in the summer causing its pressure to increase. Using the principles of kinetic molecular theory describe why the pressure increases.

faster moving particles causing more collisions

- f. A piston has its volume reduced in half. Draw a picture of a before and after picture of the piston.



with the inside wall
Container.

- note - length of arrows
about the same.

- g. Using the principles of kinetic molecular theory, describe what is happening in your piston above.

Pressure increases due to less room.
So more collisions per area.
Particles not moving faster