

Reading questions (pgs 440-446)

What is the name of the balloon shown over the Alps? _____

Name the main gases that make up our atmosphere?

_____, _____, _____

How was Otto van Guericke able to use his knowledge of the gas laws to secure a lifetime pension?

What kind of pressure is associated with wet stormy weather?

What kind of pressure do you think influences Santee's weather most of the year?

Fill in the following pressure conversion:

_____ atm = _____ mmHg = _____ torr = _____ psi = _____ Pa _____ kPa

Solve the following pressure conversions

$$1.013 \text{ atm} = \text{_____ mmHg}$$

$$800. \text{ mmHg} = \text{_____ atm}$$

$$23 \text{ psi} = \text{_____ mmHg}$$

$$1000 \text{ torr} = \text{_____ mmHg}$$

$$900 \text{ mmHg} = \text{_____ kPa}$$

Do the following temp conversions

$$19 \text{ C} = \text{_____ K}$$

$$300 \text{ K} = \text{_____ C}$$

$$43 \text{ C} = \text{_____ K}$$

