**Pressure**

Vocab – Pressure, Explosion, Implosion, Compression, Deformation

**Pressure**:

Gas particles are always \_\_\_\_\_\_\_\_\_\_\_\_ quickly and bouncing off \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_ of the container. Particles striking the sides of the container and provide a \_\_\_\_\_\_\_\_\_\_\_\_ on the wall. The \_\_\_\_\_\_\_ of the gas particles on the walls of the container is \_\_\_\_\_\_\_\_\_\_.



Containers of gas have pressure coming from \_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_. The pressure from the gas \_\_\_\_\_\_\_\_\_\_\_ the container pushes \_\_\_\_\_\_\_\_\_\_\_\_. The pressure from the outside air pushes \_\_\_\_\_\_\_\_\_.



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**Calculating Pressure**

**Pressure Formula:**

**Unit**:

**Pressure Calculation Problems:**

A person steps on a nail by accident. The person puts their weight on the step (530N). The point of the nail has an area of 0.00001m2. What is the pressure of the nail on the person’s foot?

A different less accident prone person lies down on a bed of nails. They put their full weight (530N) on a 0.53m2 area of nails. What is the pressure of the nails on the person’s body?

**Compression:**

When a substance is compressed the particles are moved \_\_\_\_\_\_\_\_\_\_

Gas 🡪\_\_\_\_\_\_\_\_\_\_\_\_ space between the particles, \_\_\_\_\_\_\_\_\_ of movement Gas \_\_\_\_\_\_\_\_\_\_ be compressed

Liquid 🡪 \_\_\_\_\_\_\_\_\_\_\_ space between particles, \_\_\_\_\_\_\_\_\_ of movement

Liquid \_\_\_\_\_\_\_\_\_\_ be compressed

Solid 🡪 \_\_\_\_\_\_\_\_\_\_\_\_ space between particles, \_\_\_\_\_\_\_\_\_ of movement

Solid \_\_\_\_\_\_\_\_\_\_\_ be compressed

Solids can appear to be \_\_\_\_\_\_\_\_\_\_\_\_\_ when under pressure, but are actually \_\_\_\_\_\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ means a change of shape without changing the volume.

Homework: p.296 Practice Problems #1-3

 p.296 Reading Check #1-5

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