

## Pressure

### SPH4C

Pressure is defined as the magnitude of the \_\_\_\_\_:

Pressure therefore has units of \_\_\_\_\_, or \_\_\_\_\_ (\_\_\_\_\_).

1 Pa is approximately equal to the pressure exerted by a single

\_\_\_\_\_

Most pressures are therefore given in \_\_\_\_\_ (\_\_\_\_\_):

1 Pa = \_\_\_\_\_

Example: A crate is 2.0 m long and 1.0 m wide. The weight of the crate is  $5.2 \times 10^3$  N. What pressure does the crate exert on the floor?

The weight of the \_\_\_\_\_ above us exerts a pressure.

Standard atmospheric pressure at sea level is \_\_\_\_\_ (or \_\_\_\_\_).

A drinking straw works by \_\_\_\_\_ the straw: the atmospheric pressure is then greater than that in the straw and forces the liquid to rise up in the straw.

Atmospheric pressure \_\_\_\_\_ as there is less air above you.

This can cause your ears to \_\_\_\_\_ when the pressure inside your ears is \_\_\_\_\_ than the pressure outside.

Similarly pressure will \_\_\_\_\_ under water as you have \_\_\_\_\_ you.