

CAIE Physics IGCSE

Topic 1.8 - Pressure

Flashcards

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Give the equation for pressure.



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pressure = force / area

$$P = F/A$$



What are the units for pressure?



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Pascals, Pa



Pressure in a fluid _____ with depth
and density. Why?



Pressure in a fluid _____ with depth and density.
Why?

Increases, because it is caused by the gravitational force of the fluid above that point.



Give the equation for pressure at different depths of a fluid (supplement)



Give the equation for pressure at different depths of a fluid (**supplement**)

pressure (Pa) = depth (m) x density (kg/m^3) x gravitational field strength (N/kg)

$$p = h\rho g$$



What does an object in a fluid experience as a result of pressure?



What does an object in a fluid experience as a result of pressure?

Forces at right angles to all of its surfaces.

