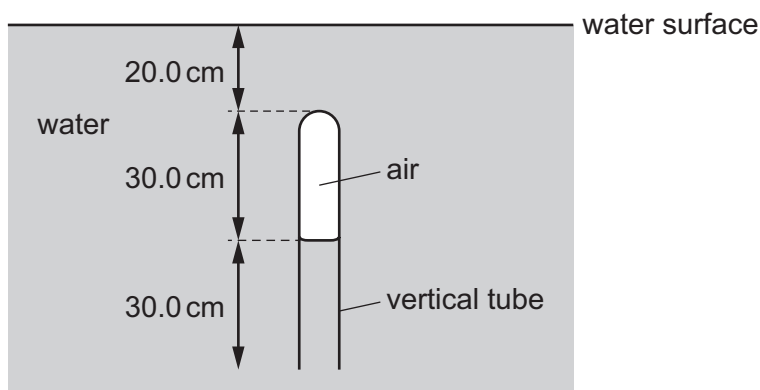


- 13** A vertical tube, closed at one end, is immersed in water. A column of air is trapped inside the tube.



The density of water is 1000 kg m^{-3} .

What is the difference between the pressure of the air in the tube and the atmospheric pressure?

- A** 1960 Pa **B** 2940 Pa **C** 4910 Pa **D** 7850 Pa

- 14** A rocket is fired upwards.

As it accelerates upwards after leaving the launch pad, which forms of energy are changing?

- A** chemical energy, gravitational potential energy and kinetic energy
B chemical energy and gravitational potential energy only
C chemical energy and kinetic energy only
D gravitational potential energy and kinetic energy only