

Tired of doing Sudoku?

Looking for a new challenge in your life? Want to have the world under your thumb? Do you want to make your university interviewer sit up? Then you need a few good physics problems to solve.

Try these...

How is it that you can lean a ladder against a smooth wall with the feet on rough ground, but you can't lean a ladder against a rough wall with the feet on smooth ground?

If all the molecules in a cubic metre of air happened to go in the same direction at once instead of in their random directions, would it have the energy of a man on bicycle or a small car on a motorway?

How much mass does the sun lose each second due to radiation?

A horse weighs 800 kg and needs to eat its own weight in food every 80 days in order to just to stay warm. If a mouse weighing 8 g were simply a scaled down horse, under the same conditions, estimate how often the mouse would need to eat its own weight in food just to stay warm.

How many carbon atoms are there in a full stop made with a pencil?

How do a nut and a bolt work to hold two metal plates together?

What is the drift speed of the electrons in the lead of a kettle when it is switched on?

In the summer, why does leaving the fridge door open not cool the kitchen down?

What is the mass of the earth's atmosphere?

Answers can be found at:

www.bpho.org.uk

Also coming soon to the BPhO website:
Problem of the Month

