

19 Which group of materials contains two polymers?

- A** copper sand polystyrene
- B** glass wood aluminium
- C** nylon sugar rubber
- D** stone diamond steel

20 The pressure at sea level is approximately 100 000 Pa. The density of sea water is 1030 kg m^{-3} .

What is the approximate pressure 80 m below the surface of the sea?

- A** 100 000 Pa **B** 180 000 Pa **C** 800 000 Pa **D** 900 000 Pa

21 Two wires P and Q are made from the same material.

Wire P is initially twice the diameter and twice the length of wire Q. The same force, applied to each wire, causes the wires to extend elastically.

What is the ratio of the extension in P to that in Q?

- A** $\frac{1}{2}$ **B** 1 **C** 2 **D** 4

Space for working