

11 A satellite is in geostationary orbit above the Earth at a height of 36 000 km. The radius of the Earth is 6400 km.

What is the speed of the satellite?

A 490 m s^{-1}

B 2200 m s^{-1}

C 2600 m s^{-1}

D 3100 m s^{-1}

12 A school laboratory has dimensions $10\text{m} \times 3.0\text{m} \times 4.0\text{m}$. The laboratory contains 5000 moles of