

Worksheet: Gravitation

ICSE · Class 11 · Physics · 5 questions · 13 marks

Name: _____

Date: _____

Score: _____ / 13

Q1. Find g at a height equal to R above Earth's surface. *[2 marks]*

Q2. Why is g zero at the centre of the Earth? *[2 marks]*

Q3. Find the orbital velocity of a satellite at 300 km height ($R = 6400$ km, $M = 6 \times 10^{24}$ kg). *[3 marks]*

Q4. Calculate the escape velocity on the Moon ($g = 1.62 \text{ m/s}^2$, $R = 1740$ km). *[3 marks]*

Q5. If Earth's period is 1 year at radius R , find the period of a planet at radius $4R$. *[3 marks]*
