

Worksheet: Atoms

IB · Class 12 · Physics · 5 questions · 11 marks

Name: _____

Date: _____

Score: _____ / 11

Q1. Find the energy needed to excite a hydrogen atom from $n = 1$ to $n = 3$. *[2 marks]*

Q2. Calculate the ionisation energy of hydrogen in eV and J. *[2 marks]*

Q3. Why did only a few alpha particles bounce back in Rutherford's experiment? *[2 marks]*

Q4. Find the wavelength of the photon emitted in the $n = 4$ to $n = 2$ transition in hydrogen. *[3 marks]*

Q5. Find the angular momentum of an electron in the third Bohr orbit. *[2 marks]*
