

Worksheet: Atoms

Uttar Pradesh State Board · 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]
