

Name_____

Print out and use this as a cover sheet for your hand-written answers.

1. What were the shortcomings with Rutherford's nuclear model of the atom due to
 - (a) ideas of electromagnetism?
 - (b) actual observations of light emitted from atoms?[6.1 Structure and Properties]
2. Explain what is meant by a *standing wave* in general.
[6.1 Structure and Properties]
3. How do electron wave-functions explain atomic stability and the characteristic discrete frequencies of light emitted and absorbed by atoms?
[6.2 Quantized Energy]