Unit 3 Study Guide – Energy and Electrons - Honors

By the end of this unit, you should achieve these learning targets:

Learning Target	How am I doing with this? Write down
	evidence!
I can explain real world scenarios involving	
the three major forms of energy transfer.	
I can identify the difference between kinetic	
energy and potential energy.	
I can discuss real world examples of the six	
(6) different forms of energy.	
I can discuss the basic idea behind the Law	
of Conservation of Energy.	
I can identify the major parts of a wave and	
common units for each measurement.	
$(\lambda \text{ and } \mathbf{v})$	
I can identify the location of the seven (7)	
major types of electromagnetic radiation on	
the spectrum.	
I can explain how wavelength and frequency	
affect the energy of a wave.	
I can identify how to determine the type of	
EM radiation when given λ or v .	
I can calculate λ or v given the other variable	
and the correct formula and know proper	
units for both.	
I can calculate E_{Photon} if given $\pmb{\lambda}$ or \pmb{v} and know	
the proper unit.	
I can explain the basic organization of	
electrons around an atom.	
I know the basic shapes for the s and p	
sublevels and know what sublevels are	
found at each energy level.	

Write down any information you struggled with in the space below to review again:

Remember, 10-15% of this exam may consist of questions and topics from previous unit exams:

- Unit 1 Fundamentals of Chemistry
- Unit 2 Atomic Structure and Nuclear Chemistry