

# Chapters 31 and 32 Light Quanta, and The Atom and the Quantum Light Quanta

1. To say that light is quantized means that light is made up of  
(elemental units) (waves)
2. Compared to photons of low-frequency light, photons of  
higher-frequency light have more  
(energy) (speed) (quanta)
3. The photoelectric effect supports the  
(wave model of light) (particle model of light)
4. The photoelectric effect is evident when light shone on certain  
photosensitive materials ejects  
(photons) (electrons)



The photoelectric effect is more effective with violet light than with red light because the photons of violet light  
(resonate with the atoms in the material)  
(deliver more energy to the material)  
(are more numerous)

6. According to De Broglie's wave model of matter, a beam of light and a beam of electrons  
(are fundamentally different) (are similar)
7. According to De Broglie, the greater the speed of an electron beam, the  
(greater is its wavelength) (shorter is its wavelength)
8. The discreteness of the energy levels of electrons about the atomic nucleus is best understood  
by considering the electron to be a  
(wave) (particle)
9. Heavier atoms are not appreciably larger in size than lighter atoms. The main reason for this is that  
the greater nuclear charge  
(pulls surrounding electrons into tighter orbits)  
(holds more electrons about the atomic nucleus) (produces a denser atomic structure)
10. Whereas in the everyday macroworld the study of motion is  
called *mechanics* in the microworld the study of quanta is called  
(Newtonian mechanics) (quantum mechanics)



A QUANTUM MECHANIC?  
I don't know!

# Conceptual Physics 33 Guide Answers

**Daniela Niemeyer**



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