

Questions you should be able to answer after learning about Quantum Theory

1. What is a sine wave. What do the following terms mean: amplitude, frequency, wave length?
2. Describe the electromagnetic spectrum. Give examples of various frequencies and the common name given to this form of energy. What does all EMR have in common. How are light waves different from sound waves?
3. What led Plank to develop the formula $E=hn$?
4. Describe the main idea of the photoelectric effect - explain what could not be explained by classical physics.
5. Discuss Bohr's theory of the hydrogen atom. How does his theory explain emission spectra.
6. What was de Broglie's contribution?
7. Who is Schrödinger and what is so special about his cat?
8. What is a quantum number?