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138 Chapter 5 • Electrons in Atoms Although the speed of all electromagnetic waves in a vacuum is the same, waves can have different wavelengths and frequencies. As you can see from the equation on the previous page, wavelength and frequency are inversely related; in other words, as one quantity increases, the other decreases.

Section 5.2 – Electron Arrangement in Atoms The electron configuration of an atom is the arrangement of the electrons. There are 3 rules that govern the electron configuration: Aufbau’s principle, Pauli Exclusion principle, and Hund’s rule.

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Interpret Scientific Illustrations Use Figure 5 and your knowledge of electromagnetic radiation to match the numbered items with the lettered items. The numbered items may be used more than once or not at all. a. longest wavelength b. highest frequency c. greatest energy 1. gamma ray 2. infraredwaves 3. radio waves

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