

## Chapter 5 Study Guide

1. What is electromagnetic radiation? Visible light form of energy that exhibits wavelike behavior as it travels through space. (Energy)
2. What is the atomic emission spectrum? Set of frequencies of the electromagnetic waves emitted by atoms of the element.
3. Define wavelength. Shortest distance between equivalent points on a continuous wave.
4. Define frequency. Number of waves that pass a given point per second
5. Define amplitude. waves height from the origin to a crest or from the origin to a trough
6. Draw a picture of a wave and label terms from questions 3-5.



7. What is a quantum? minimum amount of energy that can be gained or lost by an atom
8. What does the s-orbital look like? (draw)

 like a ball

9. What does the p-orbital look like? (draw)

 dumbbell shape

10. What does the d-orbital look like? (draw)



11. What is the maximum number of electrons are in the s-orbital?

2 electrons

12. What is the maximum number of electrons are in the p-orbital?

6 electrons

13. What is the maximum number of electrons are in the d-orbital?

10 electrons

14. What is the maximum number of electrons are in the f-orbital?

14 electrons

# Chapter 5 Study Guide The Big Picture

**M Lipman**



## **Chapter 5 Study Guide The Big Picture:**

## **Chapter 5 Study Guide The Big Picture** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Chapter 5 Study Guide The Big Picture**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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