

CHAPTER 2.1—2.3: Chemistry

1. Briefly review the structure of atoms.

2. Helium has an atomic number of 2 and atomic mass of 4. Explain.

3. Define isotope and give some examples.

4. How are isotopes used in biology?

5. What are ions? Distinguish between cations and anions.

6. What happens when electrons change levels?

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Question Set 02

7. What is the significance of valence numbers?

8. What are the most common elements in the human?

9. Why do atoms form covalent vs. ionic bonds?

10. How do non-polar covalent bonds differ from polar covalent bonds?

11. What is a hydrogen bond? How does it form and how is it different from a covalent bond?

12. Distinguish between hydrophobic and hydrophilic molecules.
