Oxford High School

Chemistry

Chapter 1-4 Cumulative Review

1. Choose the term that best completes the second relationship

Orbital: energy level apartment:\_\_\_\_\_\_\_

1. Floor
2. Room
3. Building
4. Stairway
5. Water:container electrons:\_\_\_\_\_\_
6. Frequency
7. Sublevel
8. Nuclei
9. Orbitals
10. Electromagnetic radiation: visible light student body:\_\_\_\_\_\_
11. Eleventh graders
12. Principal
13. Teachers
14. Textbooks

Short Answer

1. Traditional cooking methods make use of infrared radiation (heat). Microwave radiation cooks food faster. Could radio waves be used for cooking? Explain.

Calculations – Show all work

1. A potassium atom has a diameter of about 0.406 nm. Express this in meters and micrometers. If the measurement is the same, why are the two numbers different?
2. The density of gold is 19.3 g/cm3. What is the mass in grams of a cube of gold 2.00 cm on each edge? What is this mass in kg?
3. Give the number of protons and electrons in each of the following
4. Cs
5. Ag+
6. Cd2+
7. Se2-