

4. Interpreting Diagrams

A diagram is a visual representation of some text that uses words and symbols to represent an object. Determine how each part of the diagram shows the main ideas in the paragraph and Table 2.3 from the textbook.

In the numbered boxes, identify the parts of an atom using the following terms: **electron**, **energy shell**, **neutron**, **nucleus**, **proton**. Describe the characteristics of the different parts of the atom by completing the boxes.

2. _____

a) charge _____
b) description _____

3. _____

a) symbol _____
b) charge _____
c) relative mass _____
d) location in the atom _____

4. _____

a) symbol _____
b) charge _____
c) relative mass _____
d) location in the atom _____

5. _____

a) description _____

Bohr Diagrams

Use with textbook page 125.

1. Define the following terms.

a) Bohr diagram _____

b) valence shell _____

c) valence electron _____

2. List two things that a Bohr diagram shows.

a) _____

b) _____

3. What is the maximum number of electrons that can be found in

a) the first energy shell? _____

b) the second energy shell? _____

c) the third energy shell? _____

4. Draw the Bohr diagram for each of the following atoms.

a) lithium	b) magnesium	c) aluminum
d) oxygen	e) chlorine	f) argon