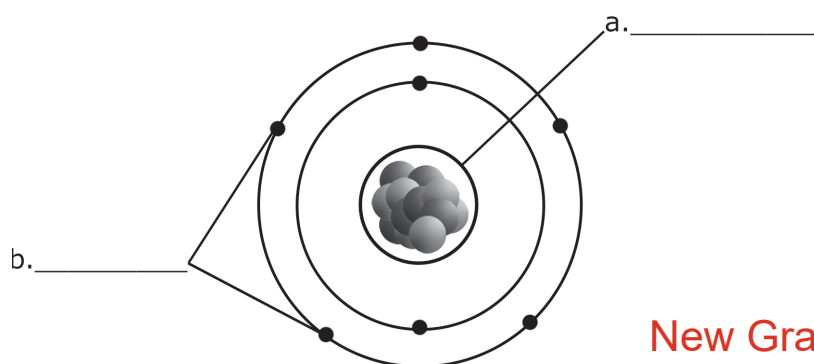


CHAPTER 3: Introduction and Matter

Then the Lord God formed man of dust from the ground, and breathed into his nostrils the breath of life; and man became a living being. Genesis 2:7

1. What is the difference between mass and matter? _____

2. **True or False?** Something that can't be seen—like air—is not matter because you can't see it.
3. Choose the correct statements learned by blowing up a balloon.
 - a. It shows that air is not made of matter.
 - b. Even though you can't see it, the balloon getting bigger when air is blown into is visual proof that air is matter.
 - c. Air obviously is matter because, if it wasn't, then the balloon wouldn't get bigger when air is blown into it.
 - d. The air inside of a balloon is matter but it obviously doesn't have mass! Balloons are not heavy enough to have mass!
4. Labels the parts of the atom.



New Graphic

5. The smaller particles that make up an atom are called _____ particles.
Which two structures are in the nucleus? _____
6. **True or False?** Electrons stay put in their shells, meaning they don't move; they are still.