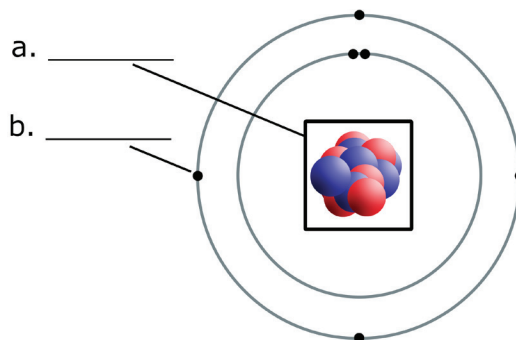


STUDY QUESTIONS

1. What are the three phases of matter?
2. If I told you that I was holding something in my hand that has mass and takes up space, what could you say I was holding and be correct no matter what was in my hand?
3. True or False: Since you cannot see them, or feel their weight, gases are not matter.
4. Label the parts of the atom.



5. What are the three building blocks of an atom?
6. True or False: electrons are negatively charged and protons are positively charged.
7. True or False: because electrons are 1,867 times smaller than protons, it takes 1,867 electrons to create the same magnitude of negative charge as 1 proton.
8. Match the correct definition of each term.

a. Crystal	1. The measure of how compact matter is
b. Elastic (elasticity)	2. Matter that will freely expand into the space available to it
c. Liquid	3. The ability to be deformed and not break
d. Malleable (ductile)	4. The organized arrangements of atoms in solid matter
e. Solid	5. Matter with atoms that are not free to move around each other
f. Neutron	6. To withstand force and return to normal shape
g. Gas	7. Matter that conforms to the shape of its container
h. Density	8. A particle in the nucleus with no charge
9. Provide the names of the following elements from the Periodic Table:
 - a. Atomic number 41
 - b. Sb
 - c. The element with 19 electrons
 - d. The element with 36 protons and 48 neutrons
 - e. Al
10. How many protons does Pd have?
11. Provide the number of neutrons for the following elements:
 - a. Sr
 - b. The element with 45 electrons
 - c. Li