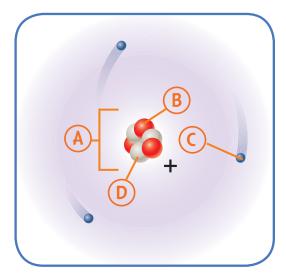
Sum It Up >>

Label the parts of this atom.



- Sequence the following from smallest to largest.
- ____ (A) atom ____ (B) proton ____ (C) molecule ____ (D) nucleus

Fill in the blanks.

An atom is the smallest particle of an \bigcirc _____ that has its properties. Our current B ______ is the result of the ideas of many

scientists over many years. Scientists currently theorize that atoms contain a dense core that is called the $^{\bigcirc}$ ______ . It contains positively charged particles called $^{\bigcirc}$ _____ , and $^{\bigcirc}$ _____ , which have no charge.

Particles called \bigcirc move around the center of the atom. The

identity of an element is determined by the number of 6 _____ in one

atom of the element. When two or more atoms are joined together,

Name.		

Vocabulary Review

For each jumbled term, unscramble the letters to form a term from this lesson. Use the clues to help you.				
1. tasmo 	The smallest particles of an element			
2. ueotnrn 	The particle in an atom that has no charge			
3. retelocn	Moves around the outside of an atom			
4. omdocpun O	Formed from at least two types of chemically combined atoms			
5. onropt 	The positively charged part of the nucleus			
6. mitoca rohety	Changed through history as scientists learned more about atoms			
7. cnluseu 	The dense, central part of an atom			
8. nemtele	Contains only one kind of atom			
Riddle Put the circled letters into the riddle in the order they are circled.				
What did the chemistry teacher get for her birthday?				
the element of				

Apply Concepts

Draw and label a diagram of a nitrogen atom. It should have 7 protons,7 neutrons, and 7 electrons.

- Use the terms atom and element to explain what makes silver and gold different.
- Complete the table.

Compound	Atoms	Fraction of each type of atom
methane	5 total: 1 carbon, 4 hydrogen	
propane	11 total:	3 carbon, 8 hydrogen
hydrogen peroxide	4 total: 2 hydrogen, 2 oxygen	
carbon dioxide	3 total:	$\frac{1}{3}$ carbon, $\frac{2}{3}$ oxygen



Check the ingredient lists on labels of several household products. Find the names of two different compounds. Use reference books or the Internet to find out what elements are in the compounds.