

# Atoms and Elements

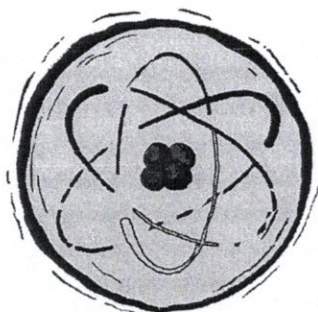
Fill in the blanks with words from the box.

atoms  
mass  
positive

carbon  
negative  
properties

electrons  
neutrons  
protons

element  
nucleus  
space



*A model of an atom showing a nucleus in the center and electrons moving around the nucleus.*

Matter is anything that has \_\_\_\_\_  
and takes up \_\_\_\_\_. An  
\_\_\_\_\_ is matter that cannot be  
broken down into anything simpler by a chemical  
reaction. Copper, oxygen, and  
\_\_\_\_\_ are examples of elements.

If you kept trying to divide an element into smaller and smaller pieces eventually you would come to a piece of that element that cannot be divided further. These smallest indivisible pieces of elements are called \_\_\_\_\_. An atom is the smallest unit of an element that keeps the \_\_\_\_\_ of the element.

All atoms of every element are composed of smaller particles. The center of each atom, called the \_\_\_\_\_, contains \_\_\_\_\_ and \_\_\_\_\_. Moving around the atom on the outside of the nucleus there are \_\_\_\_\_. Protons have a \_\_\_\_\_ charge whereas electrons have a \_\_\_\_\_ charge. Neutrons have no charge at all.