

Name:

1. Define the term *atom*.

An atom is the smallest particle of an element that retains the properties of that element.

2. List the three subatomic particles and their charges.

Proton, 1+

Neutron, 0

Electron, 1-

3. Where are the three subatomic particles located?

Protons and neutrons – in the nucleus

Electrons – in empty space surrounding nucleus  
(electron cloud)

4. Where is most of the mass of an atom located?

In the nucleus

5. Why are atoms electrically neutral?

Equal numbers of positively charged protons and negatively charged electrons give an overall charge of zero.