

# What is an Atom?

## Guided Reading Questions

1. What is the most basic unit of matter?
2. List the 3 particles that make up an atom.
3. What were the two earliest atoms?
4. Where are protons and neutrons found in an atom?
5. Where are electrons found in an atom?
6. What happens when a proton is added to an atom?
7. What happens when a neutron is added to an atom?
8. Virtually all of the mass of an atom resides where?
9. What type of charge does a proton have?
10. What is determined by the number of protons in an atom?

11. How much smaller is an electron than a proton or neutron?

12. Using the electron configuration and principles of physics, chemists can predict an atom's properties. List three from the reading.

13. What is an electron's charge?

14. What is a neutron's charge?

15. How far back does the theory of the atom date?