

Atomic Structure

1. Choose an atom from the list on the board. Make a model of this atom. Use one length of fishing line to string together the beads representing the protons and the beads representing the neutrons in the nucleus. Use the pipe cleaners to hold the beads representing the electrons in rings around the nucleus. Connect the model pieces with the other length of fishing line.

2. Fill in the blanks for the atom you built:

Name of Element _____ Symbol _____

Atomic Number _____ Mass Number _____

Number of Electrons _____ Number of Protons _____

3. Classify the three main subatomic particles according to mass, charge, and location in the atom.

	Mass	Charge	Location
Proton	_____	_____	_____
Neutron	_____	_____	_____
Electron	_____	_____	_____

4. What is an isotope?

5. Using your model pieces, build an atom of lithium. Now modify your model to represent an isotope of lithium with a mass number of 8. Draw both models in the space below.