

I. Fill in the blanks

Inside the nucleus of an atom are _____ and _____. The _____ of an atom is the sum of these two particles. The atomic number is equal to the number of _____ present in the nucleus of the atom, and because the atom is neutral, the atomic number is also the number of _____ outside the nucleus of the atom.

Procedure: In this activity an “egg” will represent the nucleus of an atom and different colors of candy will represent the subatomic particles within the nucleus. Write the description of the candy used to represent the subatomic particles based on your teacher’s instructions below:

Particle

Description

_____	_____
_____	_____

The “atoms” have been numbered. In the data table, write the number of the “atom”, the number of each subatomic particle present, the mass number, and the nuclear symbol for the element represented by the “atom” as well as the hyphen notation for that atom.

# of Atoms	# of Protons	# of Neutrons	Mass Number	Nuclear Symbol	Hyphen Notation