Parts of an Atom

Subatomic Particle	Charge	Mass	Location	

Isotopes

TABLE 1.

Element Name	Symbol	Protons	Neutrons	Electrons
Hydrogen-1	¹H	1	0	1
Hydrogen-2	² H	1	1	1
Hydrogen-3	³ H	1	2	1
Helium-3	³He	2	1	2
Helium-4	⁴He	2	2	2
Lithium-6	⁶ Li	3	3	3
Lithium-7	⁷ Li	3	4	3
Carbon-12	¹² C	6	6	6
Carbon-13	¹³ C	6	7	6
Carbon-14	¹⁴ C	6	8	6

Use TABLE 1 to answer the following questions:

	looking at the hydrogen (in purple), helium (in red), lithium (in blue), carbon (in green), what nships do you notice?
a)	Relationship between name and symbol:
b)	Relationship between name/symbol and protons+neutrons:
	A callegation of atoms that all hours the cause growth on affine to a

Element – A collection of atoms that all have the same number of protons.

Isotopes – Two or more atoms of the same element that have different numbers of neutrons.

- 2. List the isotopes of hydrogen (element name): ______
- 3. List the isotopes of carbon (element name):