

are wearing similar clothes?

Within the same column, the outfits are similar. This is to represent the physical properties of the elements sorted by metals, non-metals, & metalloids.

What can the increase in the size of the "cousins" be compared to on the periodic table?

The increase of size in the cousins is like the increase of atomic number, atomic mass, protons, neutrons, & electrons. (MASS-AMU)

specific atoms?

The number of arms each element cousin has shows the number of energy levels each element has on the periodic table.

The significance of the number of fingers on each cousin's hands is that they show the number of protons, electrons, & the atomic number.

5. Compare the number of hairs on the heads of the cousins to valence electrons. How does this ob relate to Mendeleev's work?

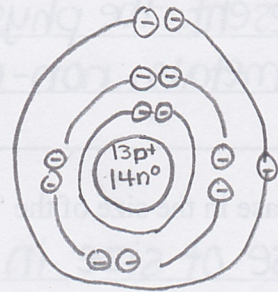
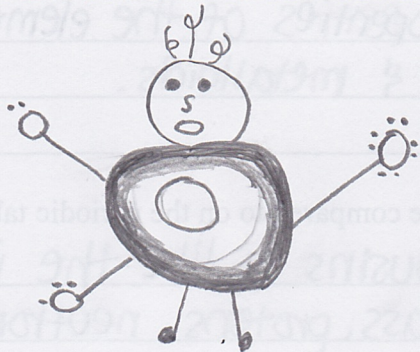
The cousins are sorted by the number of hairs on their heads & valence electrons; Mendeleev sorted the periodic table by both physical & chemical properties.

Why are some cousins smiling while others are frowning? (*Hint: Some atoms need only to gain or lose one two, or three electrons to have a full outer energy shell.*)

The cousins that are smiling are noble gases and their valence shells are full; the cousins who are frowning are not noble gases & their valence shells aren't full.

Valence electrons: 3 group #: 13 metal, nonmetal or metalloid? (circle one)

Sketch what he looks like next to his atomic structure:



Sodium:

