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Name: \_\_\_\_\_

**SCH 4C Bonding Quiz**

1. For each of the following pairs of elements:
- a) determine if each pair of elements will form ionic or covalent bonds (consider whether that atoms are metallic or ionic), also do a  $\Delta EN$  calculation
- b) if ionic:
- show neutral lewis dot diagrams
  - add arrows to show how the electron will move
  - draw in extra atoms if necessary
  - draw the resulting ions, complete with empty or full valence shell, brackets and charge
  - chemical formula
  - be sure to use different symbols for the electrons of different elements
- a) if covalent:
- draw a good diagram with extra atoms as needed to show how sharing in covalent bonds works
  - add circles to show the satisfied octets or duets in the case of helium like elements
  - state the type of covalent bonds (i.e. single, double and how many)
  - show the chemical formula

Na with O

/5

N with H

/5

H with O

/5

Ba with N

/5

C with S

/5