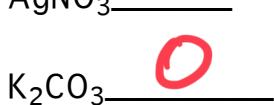
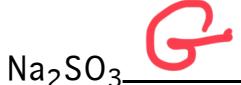
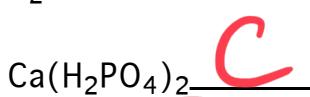
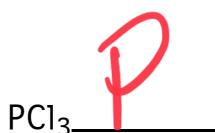
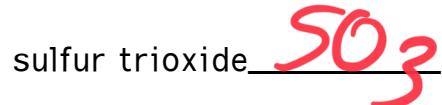
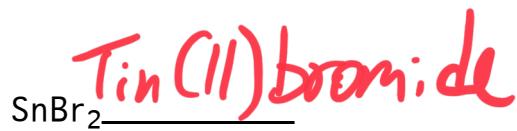


50pts 1) Match the formula to the correct name,



- | | |
|---------------------------------|---------------------------|
| a. dialuminum trisulfide | q. bromic acid |
| b. dipotassium oxide | r. ferric chloride |
| c. calcium dihydrogen phosphate | s. iron(II) chloride |
| d. hydrobromic acid | t. calcium phosphate |
| e. silver nitrate | u. hydrobromous acid |
| f. sodium nitrate | v. bromic acid |
| g. sodium sulfite | h. sodium sulfate |
| i. potassium trichloride | j. lithium permanganate |
| k. aluminum sulfide | l. sodium sulfite |
| m. potassium oxide | n. boron trichloride |
| o. potassium carbonate | p. phosphorus trichloride |

64 pts 2) Write the names or formula for the following compounds:



200 points total

Page 3 of 6

36pts 3) Answer the following:

a) Circle the warmer temperature?

20°C 20K



b) How many neutrons are in an atom of Sr-90?

$$90 - 38 = 52$$

c) How many mL are in 0.667 L?

$$0.667 \text{ L} \left(\frac{1000 \text{ mL}}{1 \text{ L}} \right) = 667 \text{ mL}$$

d) Circle the greater distance

0.100 m 1000 mm



e) Balance the following equation:



200 points total

Page 4 of 6

f) What prefix means "nine"?

nona

g) Convert 2.2×10^{-3} to decimal notation?

0.0022

h) Write the name and symbol of a halogen.

F fluorine

Br bromine

Cl chlorine

I iodine

i) Circle the subatomic particle with the greater mass?

electron

neutron



15pts 4) How many significant figures are in the following?

10.08210 7

0.0900000 6

1.00×10^{-7} 3

1205000 4

1.022000×10^{-4} 7

10pts 5) Fill in the following table:

Symbol	# of protons	# of neutrons	# of electrons	charge
Na-23	11	12	11	0
K-40	19	21	18	+1
Ar-40	18	22	18	0
Al-27	13	14	10	+3

200 points total**Page 6 of 6**10pts6) What mass of a liquid with $d=1.82 \text{ g/mL}$ has a volume of 24 mL?

$$24 \text{ mL} \left(\frac{1.82 \text{ g}}{1 \text{ mL}} \right) = 44 \text{ g}$$

10pts7) A snake is 3.2 feet long.

$$2.54 \text{ cm} = 1 \text{ inch}$$

a) What is his length in mm?

$$3.2 \text{ ft} \left(\frac{12 \text{ in}}{1 \text{ ft}} \right) \left(\frac{2.54 \text{ cm}}{1 \text{ in}} \right) \left(\frac{10 \text{ mm}}{1 \text{ cm}} \right) \\ = 980 \text{ mm}$$

5pts 8) Assume that an element consists of two isotopes with masses of 90.00 amu and 120.00 amu. If the abundance of the 90.00 amu isotope is 80.00% and the abundance of the 120.00 amu isotope is 20.000%, what should appear in the periodic chart as the atomic weight of the element?

$$0.8000(90.00 \text{ amu}) + 0.2000(120.00 \text{ amu}) \\ = 96.00 \text{ amu}$$