

Name: _____

Topic 1-3 Review

1. What does **WHMIS** stand for? [1 mark]
2. What does **HHPS** stand for? [1 mark]
3. How is **WHMIS** different than **HHPS**? [1 mark]
4. Copper (II) sulfate is a solid blue crystal chemical. Its container is labelled with the pictures shown.



a) Name these WHMIS symbols [1 mark]

b) Identify 2 ways you would keep yourself safe while working with this chemical [2 marks]

5. Propane is a dangerous flammable gas and is kept in a pressurized container during transport. The container can explode if it is damaged. What two WHMIS and HHPS symbols would you expect to find on the propane truck? Draw the 4 symbols below. [2 marks]



WHMIS

HHPS

6. Define Matter [1 mark]

7. Give 2 examples of each type of matter [3 marks]

a) Solid –

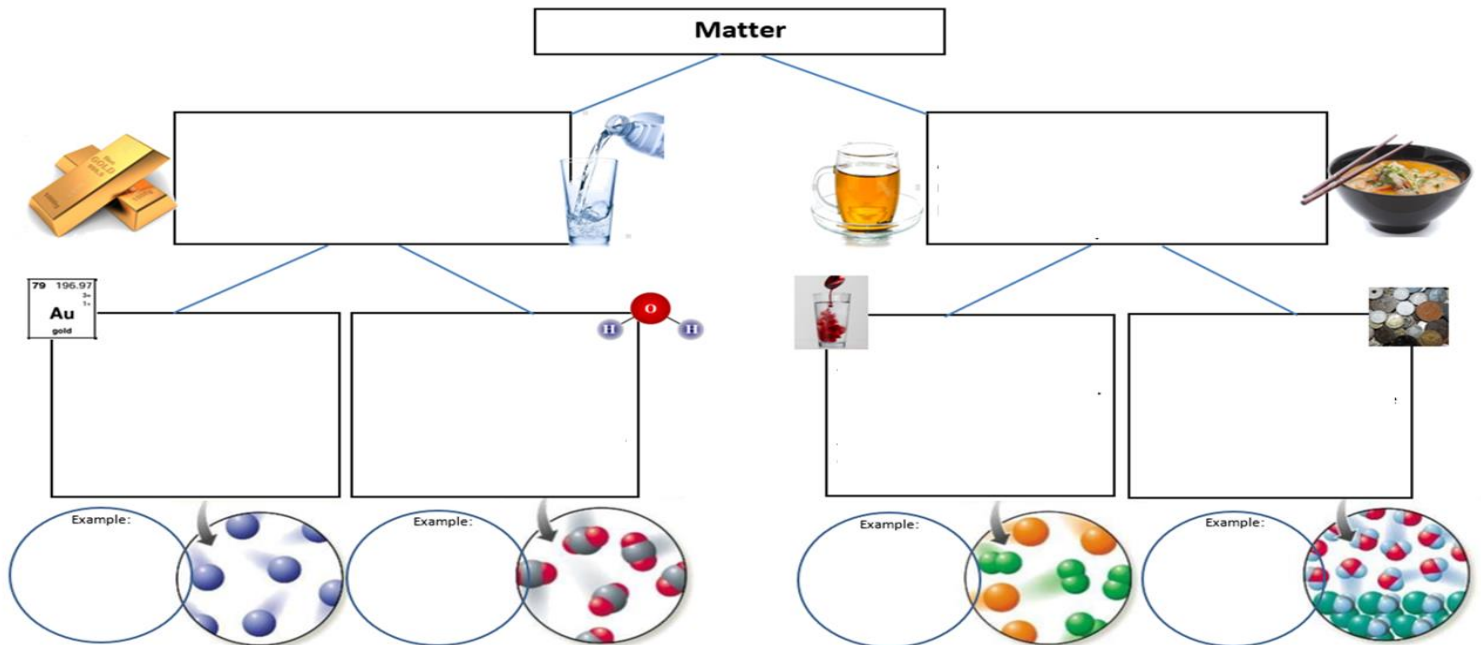
b) Liquid –

c) Gas –

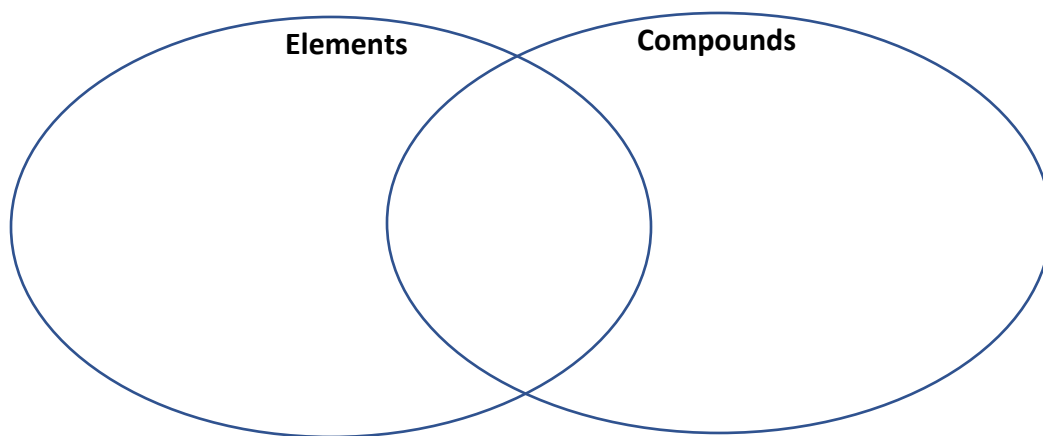
8. Give 2 examples of things that are NOT matter [1 mark]

9. List the 4 main points of the Particle Model of Matter [4 marks]

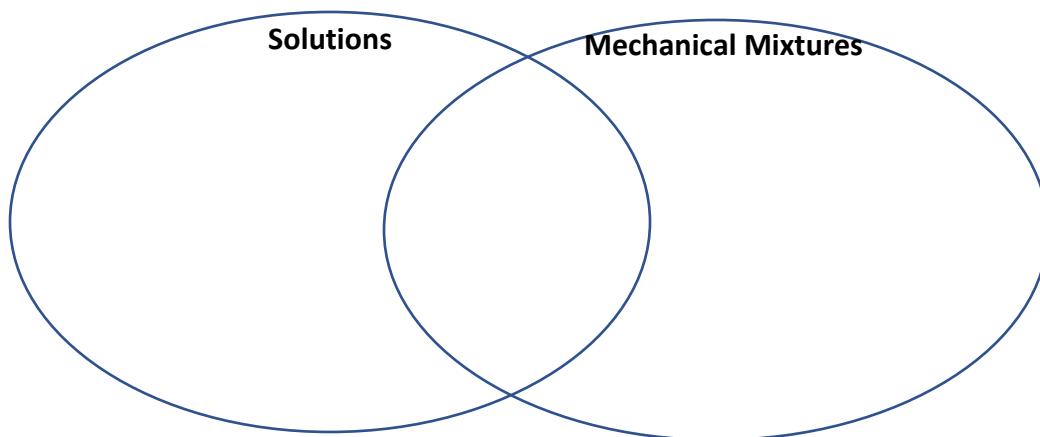
10. Copy the Classification of Matter flow chart from your notes. Give at least 2 examples of each of the bottom 4 classifications. [5 marks]



11. In the chart below list the differences and similarities between elements and compounds. [3 marks]



12. In the chart below, list the differences and similarities between solutions and mechanical mixtures. [3 marks]



13. Use the internet and investigate the following chemicals and complete the chart below. [7 marks]

Chemical	Classification	How do you know this?
carbon (C)		
sugar (C ₆ H ₁₂ O ₆)		
chocolate chip cookie		
salt water		
borax (Na ₂ B ₄ O ₇)		
burger		
fluorine (F)		




Elements

14. Use your periodic table to write the missing information for each element. [6 marks]

Element Name	Element Symbol	Atomic Number
Vanadium		
	Ni	
		16
Sodium		
	Li	
		8

Compounds

15. Write name of the elements in each compound. [4 marks]

Compound Name & Chemical Formula	Uses	Elements in the Compound
calcium carbonate CaCO_3	medicine for heartburn 	
phosphoric acid H_3PO_4	flavouring in soda 	
hydrochloric acid HCl	helps digest food in your stomach 	
calcium sulfate CaSO_4	used for casts on broken arms, legs 