

8323 INVESTIGATING CHEMISTRY REVISION

NAME: _____ MARK: ____ /50 = _____ %

- The study of materials , how they are composed and the changes they undergo is known as _____.
- Complete the three phases (states) of matter and their properties in the table below. [6 marks]

STATE	SHAPE	VOLUME	COMPRESSIBILITY

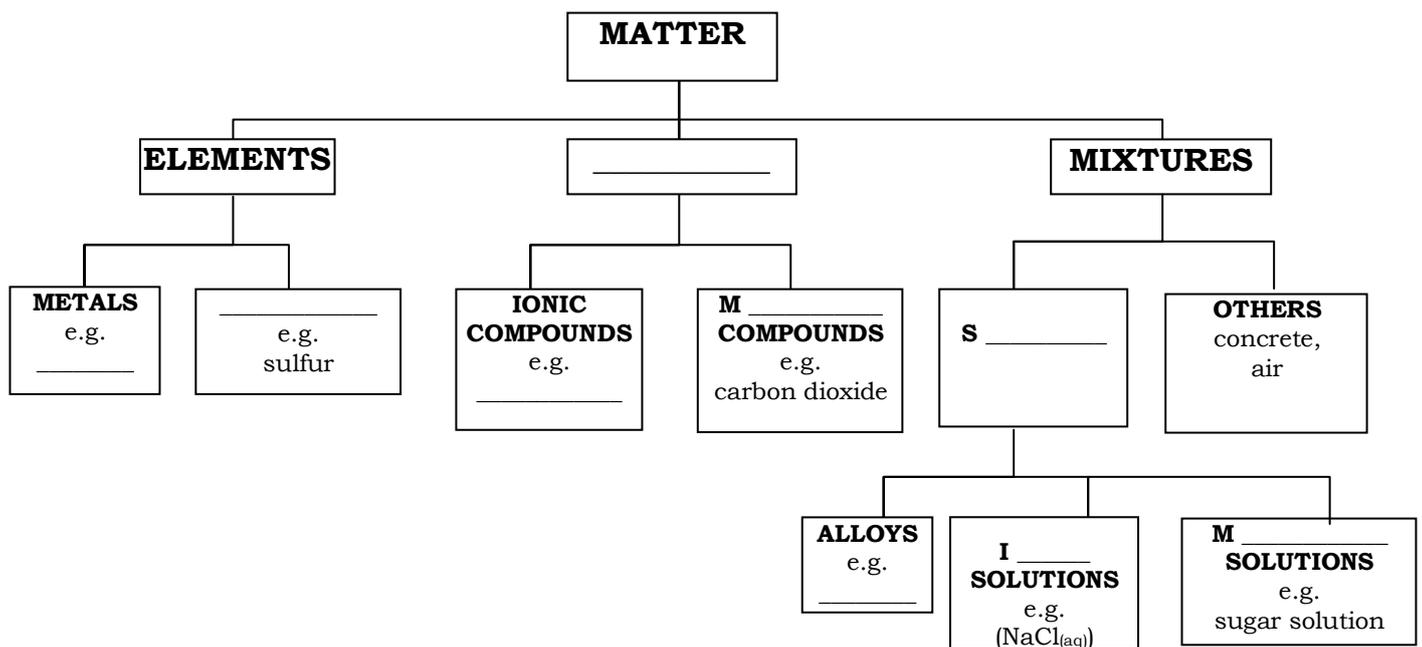
- Anything which takes up space and has mass is _____.
- To melt a solid it must be _____ and it turns into a _____. Further heating will cause it to become so hot that it might _____ and become a _____.
- Complete the table below:

NAME	Phase (states) of matter	
	From	To
vaporisation		
sublimation		
condensation		
melting (fusion)		
evaporation		

[5 marks]

- Materials which dissolve easily in water are called _____. Those which dissolve slightly are called _____ while those whose solubility is negligible are called _____.
- The most common solvent is _____.
- When dissolving sugar in water, the sugar is the _____ and the water is the _____ and the resulting sugary water mixture is called the _____.
- Undissolved or insoluble material can be separated from a liquid by the methods of _____ or _____ or _____.
- Dissolved material can be separated from solution by the methods of _____ or _____.
- If the undissolved material is in suspension the method of _____ may be used.

12. Name the process when:
- (a) water is carefully poured out of a saucepan to leave the cooked vegetables in the saucepan. _____ .
- (b) after cooking peas, the saucepan is tipped over a sieve, the peas are held in the sieve but the water passes through. _____ .
- (c) puddles of water on the road after a shower of rain soon dry when the sun comes out. _____ .
13. _____ changes involve the formation of NEW substances.
14. When two or more elements are chemically combined they form a _____ which has _____ properties from those of the original elements.
15. A _____ retains the properties of its constituents or components.
16. Physical (mechanical) methods of separation will separate the components of a _____, but _____ methods are necessary to separate the components in a _____ .
17. Complete the following Classification of Matter chart: [5 marks]



18. Write down formulae or name of the following chemicals: [5 marks]

name	formula	name	formula	name	formula	name	formula
water			SO ₂	ammonia		sulfuric acid	
	Na ₂ CO ₃	copper sulfate		zinc oxide		potassium nitrate	
	MgCl ₂		(NH ₄) ₃ PO ₄				