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### NATURALSCIENCE HOMEWORK

#### **DENSITY WORD PROBLEMS**

Use the following formulas to answer the questions below.

M = DXV

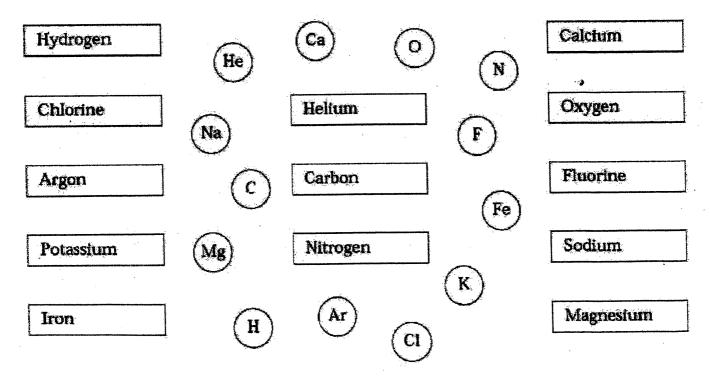
D = M / V

V = M/D

- 1. What is the density of an object with a mass of 120g and a volume of 7ml?
- 2. What is the volume of an object that has a mass of 220 grams and a density of 55g/ cm<sup>3</sup>?
- 3. We have an object with a density of 620 g/cm³ and a volume of 75 cm3. What is the mass of this object?

### ATOMS, ELEMENTS AND COMPOUNDS

# Here are some names of some elements and their symbols.



- 1. Match the names to their correct symbols.
  You can either draw lines between them or colour code them.
- 2. After the name of each element write in whether it is a solid, a liquid or a gas. Do not write the full words just (s) for solid, (1) for liquid or (g) for gas.

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-	Write each of these chemical startne coepecy solumn on the	Table:

carbon	nitrogen	carbon	dioxide	hydrogen oxide (water)	i	ro
hydrogen	iron oxide	e (rust)	copper	sodium chloride (table sa	nit)	

Elements	Compounds		
•			

2. Complete the table.

Name	Particle diagram	Pormula	Number of different elements in the compound	Number of atoms in each molecule
EXAMPLE Water	9	H₂O	AYDROGEN OXYGEN	<b>3</b> .
carbon dioxide	000			4 <b>9</b>
Solfun Dioxide		5O <sub>2</sub>		
Scifur Trioxide		503		
ammonia		NH <sub>3</sub>		