

IS MATTER AROUND US PURE

INTRODUCTION

SUBJECT-CHEMISTRY

CHAPTER-02

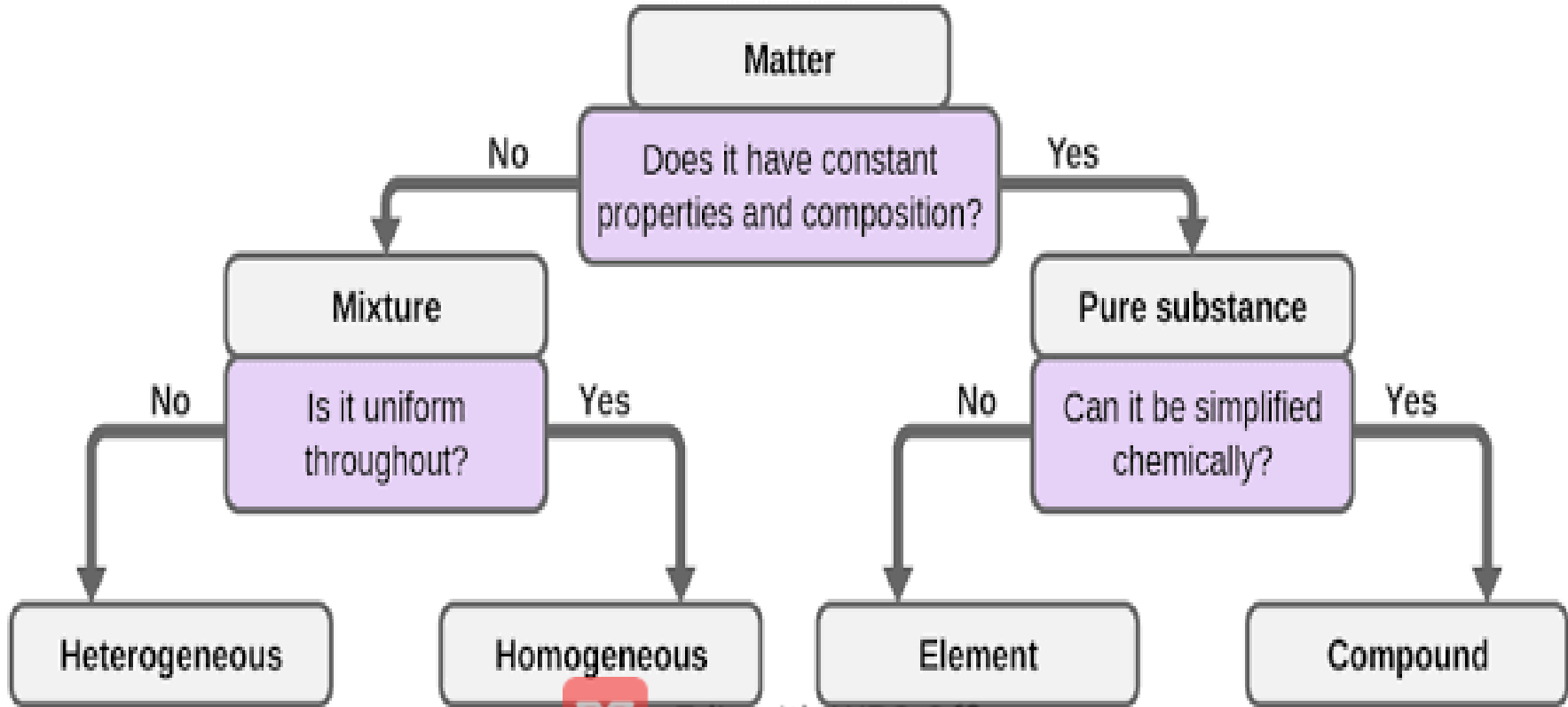
CHAPTER NAME-IS MATTER AROUND US PURE

CHANGING YOUR TOMORROW



Edit with WPS Office

CLASSIFICATION OF MATTER



PURE SUBSTANCES

- **PURE SUBSTANCES ARE MADE UP OF SINGLE SUBSTANCES WHICH CANNOT BE SEPARATED INTO ANY KINDS OF MATTER.**
- **PURE SUBSTANCES ARE GROUPED INTO ELEMENTS AND COMPOUNDS.**
- **IMPURE SUBSTANCES ARE KNOWN AS MIXTURE.**
- **MIXTURE CAN BE HOMOGENOUS OR HETEROGENOUS.**
- **HOMOGENOUS MIXTURE IS TRUE SOLUTION .**
- **HETEROGENOUS MIXTURE ARE GROUPED INTO SUSPENSION AND COLLOIDS**



ELEMENTS AND COMPOUNDS

Pure substances are again of two types:
(a) Elements (b) Compounds

Elements:

- Pure substances which are made up of only one kind of atoms are known as elements.
- They cannot be split up into two or more simpler substances by any of the usual chemical methods.
- For example, Iron, gold, silver, carbon, oxygen, nitrogen and sodium etc.

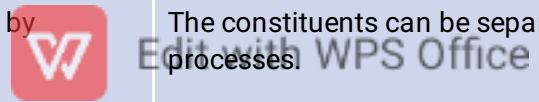


DIFFERENCE BETWEEN MIXTURE AND COMPOUNDS

	Mixtures	Compounds
	Elements just mix together to form a mixture. No new compound is formed.	Elements react to form new compounds.
	Mixture has a variable composition.	The compound has a fixed composition.
3.	A mixture shows the properties of its constituents.	Properties of a compound are totally different from those of its constituents.
4.	They do not have a fixed melting point, boiling point, etc.	They have a fixed melting point, boiling point, etc.
5.	The constituents can be separated easily by physical methods	The constituents can be separated only by chemical processes.

HOMEWORK ASSIGNMENT

Write a short paragraph comparing mixtures and compounds. Give examples of each and explain how they are formed.



HOME ASSIGNMENT

Exercise Q1 to Q4

- 1) Differentiate between Mixture and Compounds.
- 2) Why hydrogen is said to be an element but H_2O is said to be a compound.



THANKING YOU

ODM EDUCATIONAL GROUP



Edit with WPS Office