



Sainik School Amethi



SUMMER HOLIDAY HOMEWORK **(2024-25)**

CLASS: IX

SUBJECT: SCIENCE

- 1. Make notes and Questions in the fair copy of**
 - a. Atoms and molecules**
 - b. Structure of the atoms**
- 2. Note down the atomic mass, symbols, names and atomic number of first 20 elements from the periodic table in the fair copy.**
- 3. Submit the completed attached assignment. (Either printed or handwritten)**



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CLASS: IX

SUBJECT: SCIENCE

NAME- _____

ROLL NO- _____

Question 1. FILL IN THE BLANKS:-

- Common salt is _____.
- A mixture contains more than _____ substance mixed in _____ proportion.
- Properties of a _____ are different from its constituent elements, whereas a _____ shows the properties of its constituting elements.
- A solution is defined as a mixture that is-----.
- A pure substance has a fixed _____ or _____ at constant temperature.
- An element is made up of only one kind of _____.
- Filtered tea is a _____ mixture.
- Alloy is a _____.
- Sublimation of camphor is a _____ change.
- Most common chemical change we observe in our routine life is rusting of _____.

Question 2. True and False

- Water is homogenous substance.
- Element is always metal.
- Substance is always homogeneous
- In compound elements combine in definite proportion.
- Mixtures are always combinations of the same compounds that are at different states.
- All mixtures are defined as "heterogeneous".
- Only specific compounds can be combined to form mixtures.
- No pure elements are liquids at room temperature.
- Mixtures are combinations of one or more compounds that can be separated with chemical processes.
- Crystals can be made of mixtures.

Question 3. Define element, compound and mixture.

Question 4. Explain why, water is a compound and not a mixture?

Question 5. Classify each of the following as a homogeneous or heterogeneous mixture.
Soda water, wood, air, soil, vinegar