

St. Michael's School, Muri

Sub - Science

Class- 8

Chapter-4: Metals and Non – metals.

- Metals are strong and durable. Thus metals are used so widely for making almost everything. Example: Metals are used in making machinery, automobiles, aeroplanes, buildings, trains,.....etc.

Physical properties of metals

- The metal base in an electric iron is for conducting heat, not electricity.
- Metals are very good conductors of heat, cooking utensils, irons, heaters, etc, are all made of metals which are good conductors of heat.
- Metals can be easily shaped into wires. This property of metals is called ductility.
- Metals can be easily shaped into thin flat sheets. This characteristic of metals is called malleability.
- Metals make a sound when struck with hard object, metals can be polished to a shiny appearance.

Chemical properties of metals

- Metals react with oxygen to produce metal oxides which are basic in nature. Non-metals react with oxygen to produce non metallic oxides which are acidic in nature.
- Some metals react with water to produce metal hydroxides and hydrogen gas. Generally, non-metals do not react with water.
- Metals react with acids and produce metal salt and hydrogen gas. Generally ,non-metals do not react with acids.
- Some metals react with bases to produce hydrogen gas.
- More reactive metals displace less reactive metals from their compounds in aqueous solutions.

Physical properties of non-metals

- Non-metals are non-lustrous, non-malleable and not ductile, except for carbon fibres, which are ductile.
- Non-metals are not sonorous. They do not produce any sound when hit.....
- Non metals do not conduct heat and electricity except for graphite.

Chemical properties of non-metals

- Non-metals react with oxygen to form their oxides. Non-metal oxides are acidic or neutral in nature.
- In general non-metals do not react with water though they may be very reactive in air.
- Non-metals do not react with acids

Metals and non-metals are used widely in everyday life.

Home assignment

Q1. Differentiate between metals and non-metals.

Q2. What is sonorous?

Q3. Define ductility.

Q4. Define malleability.

Q5. Why we use aluminium foil to wrap food items?

Q6. State some of the chemical properties of metals.

HOLIDAY HOMEWORK

Class- 8

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Chapter 1 – Crop Production and Management

Q1. Write and remember all the keywords of page no. A-13 of your text book.

Q2. Select the correct option of multiple choice question of page no. A-14.

Q3. Fill in the blanks of page no. A-14.

Q4. Write the answer of all short answer type questions of page no. A-15.

Chapter 2 – Microorganisms : Friend and Foe

Q1. Write and remember all the keywords of page no. A-27.

Q2. Fill in the blanks and match the column of page no. A-28.

Q3. Write the answer of long answer type questions of page no. A-29.

Q4 Select the correct option of MCQ of page no. A-28.

Chapter 3 – Synthetic Fibres and Plastics

Q1. Write and remember keywords of page no. A-38.

Q2. Collect and paste different samples of synthetic fabric in a project file. Write down the properties of each fabric and their uses.

Q3. Fill in the blanks of page no. A-40.

Q4. Write the answer of short answer type questions of page no. A-40.

