

TENDER HEART HIGH SCHOOL, SEC-33B, CHD

CLASS - X

SUBJECT - CHEMISTRY

CHAPTER - 7

TEACHER - ANAMIKA

Good morning to all the students!

Students this lesson is for class-X for the subject of chemistry, Topic:- 'Alloys' which is covered in chapter-7 'Metallurgy' starting on page number-133 of your text-book titled - 'Concise chemistry by Salina Publication' and is being submitted to you

All students may now please open page number-13 of your notebook in front of you.

If all students are ready then let us start with this chapter. All students may now please listen carefully.

Alloys

A homogenous mixture of two or more metals or metal with non-metal is called an alloy.

Fusible alloys - Alloys which melt at temperature ranging between 51°C to 260°C are called fusible alloys. They contain bismuth, lead, tin etc.

Amalgam - Alloys which contain mercury as one of the element are known as Amalgam.

Eg - Dental amalgam is a mixture of mercury and a silver-tin alloy.

COMPOSITION AND USES OF ALLOYS

ALLOY	COMPOSITION	USES
1. Duralumin	Aluminium, copper, magnesium and manganese	(i) Aircraft bodies, body of buses and tube trains (ii) Light tools (iii) Pressure cooker
2. Stainless steel	Iron, Chromium, nickel and carbon	(i) Utensils (ii) Cutlery (iii) ornamental pieces (iv) Surgical instruments
3. Brass	Copper and Zinc	(i) Decorative hardware, utensils (ii) Screws and handles (iii) Cartridge (iv) part of watches (v) musical instruments (vi) Electrical goods
4. Bronze	Copper, tin and zinc	(i) Medals (ii) statues (iii) Utensils (iv) Coins (v) bearing
5. Solder / Fuse metal	Lead and tin	(i) Soldering (ii) Fuse

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Now, I will give you three or four short questions, you will get a three minutes break to write the answers.

Q1:- Name the elements contained by feasible alloy.

Q2:- Name the alloy which is used in aircraft bodies, bodies of buses and tube trains.

Q3:- Name the composition of alloy solder / fuse metal.

Now, pause your audio for three minutes and write the answers in your chemistry notebook.

I hope you all have written the answers by now. Let us check the answers now.

Ans1:- Bismuth, lead, tin etc.

Ans2:- Duralumin.

Ans3:- Lead and tin

Now, I am ending the lesson for today by giving 'Instructions' and 'Homework'.

Instructions & Homework:-

You all are required to revise all the topics which we have covered today. Do Questions 4, 9 and 10 of Exercise 7-D.

X

(End)

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