

E.V.S

Metals and Materials

Notes



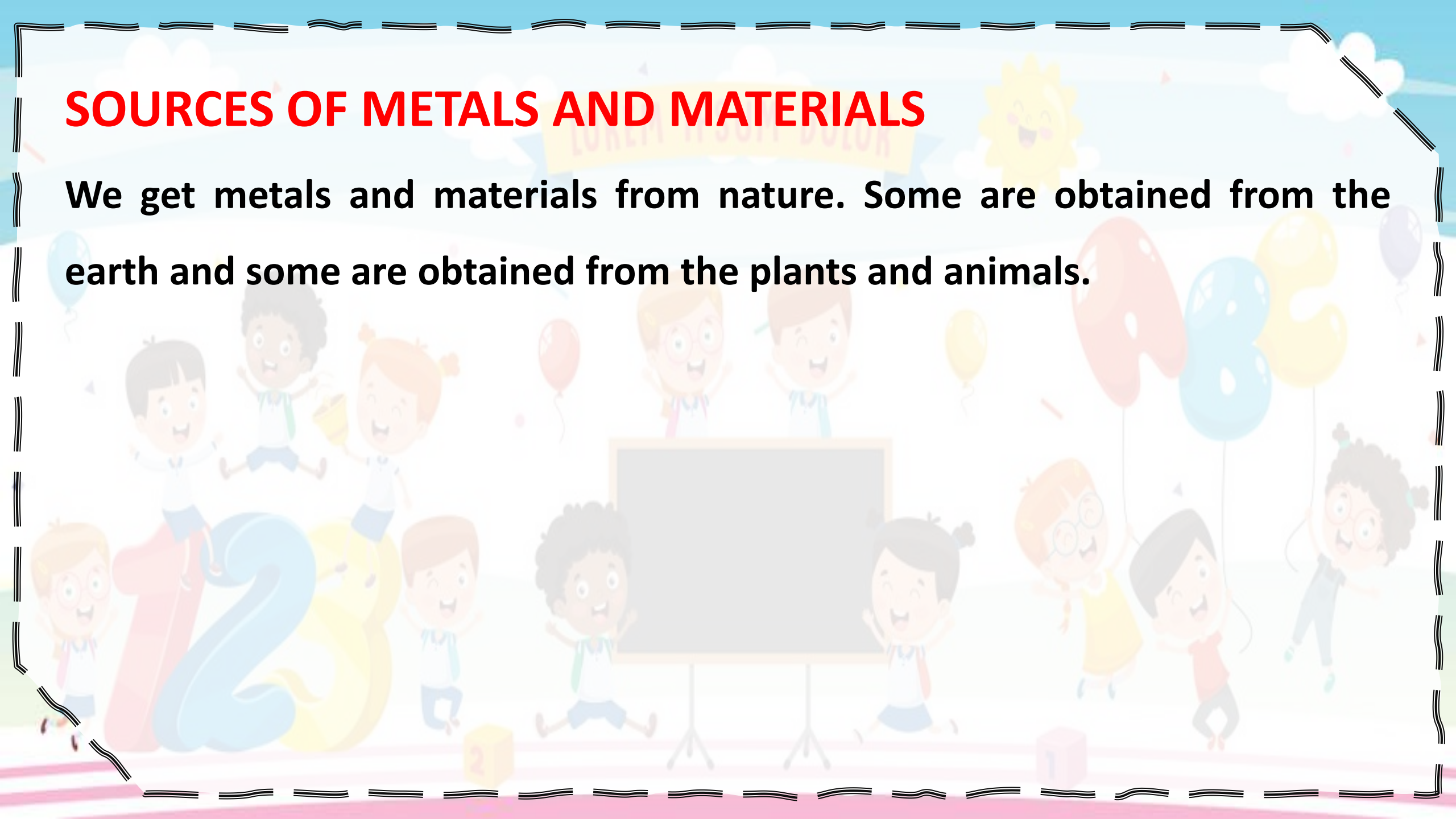
INTRODUCTION

We use several things in our daily life. All these things are different in shape and size from each other and made of different metals and materials. All these metals and materials have different properties, so the things made from them are also different.

Tin, iron and gold etc. are some metals and wood, paper, plastic, glass and rubber are some materials that are used to make different things.

SOURCES OF METALS AND MATERIALS

We get metals and materials from nature. Some are obtained from the earth and some are obtained from the plants and animals.



METALS FROM THE EARTH

We get different metals from the earth. Metals are used for making machines, utensils, vehicles, electric appliances, wires and many other things. Iron, aluminum, copper etc. are some common metals. Gold and silver are the metals used for making jewellery.

Sand is used for making glass. Clay is used for making earthen pots.



Earthen pot



Iron pot



Aluminium bowl



Glass jar



Gold and Silver
jewellery

The crude oil which we dig out from the earth gives petrol and diesel, which are used to run machines and vehicles.



Petrol/Diesel

We also get kerosene, wax, vaseline etc. from petroleum which are used in industries.



Wax



Vaseline



Kerosene

MATERIALS FROM PLANTS AND ANIMALS

Timber

We get timber from trees. Trees like sal, teak give us wood which is very hard and strong. This wood is used to make furniture, houses, ships and many other things.



Timber

Rubber

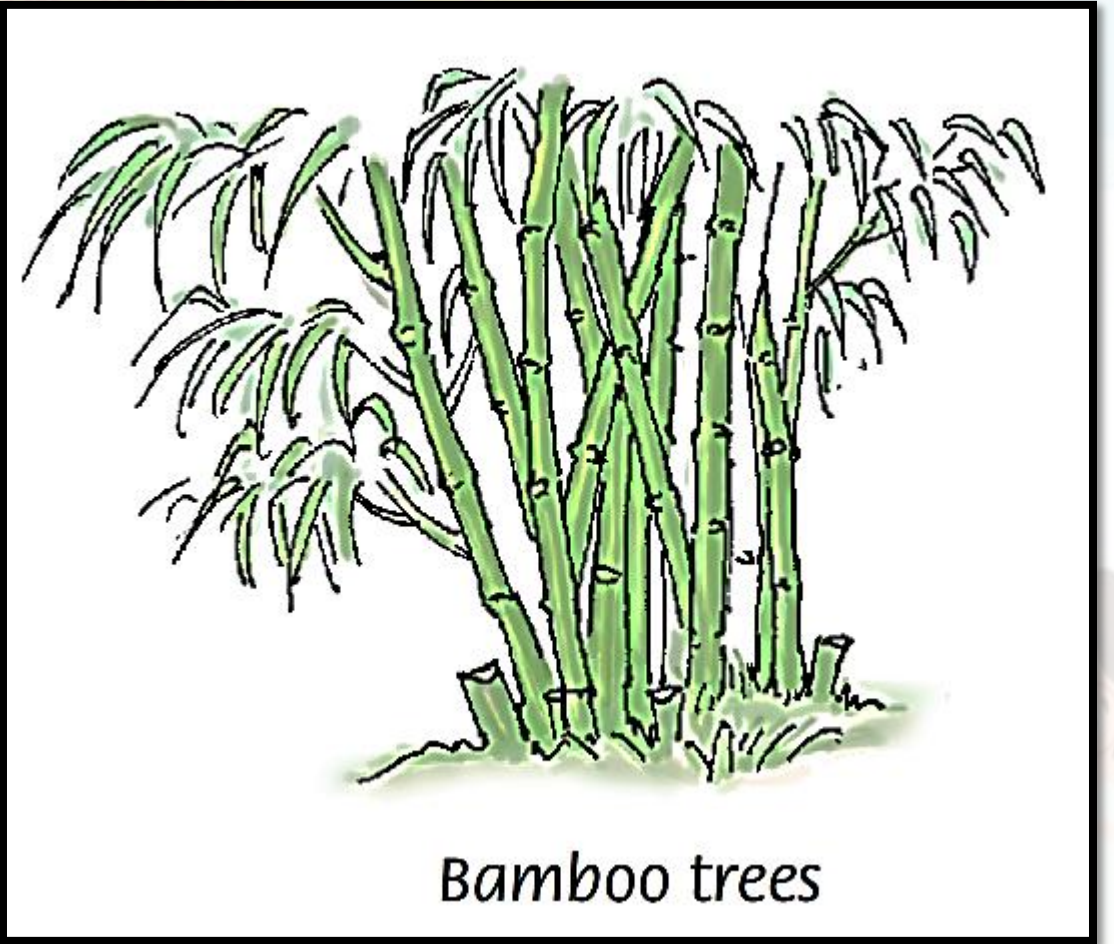
Rubber is made from the liquid obtained from the trunk of the rubber tree. Rubber is highly stretchable.



Rubber plants

Paper

Paper is made from the wood of the bamboo and eucalyptus trees. The wood of these trees is soft of which a watery paste is made. This paste is then used to make paper.



Bamboo trees

Fibre

We get cotton from the cotton plants and jute from the jute plants. The fibre of Flax is used to make linen. Cotton fibre is used to make cloth while rugs and ropes are made from the jute fibres.



Flax

Check Your Knowledge

LOREM IPSUM DOLOR

Fill in the blanks.

1. _____ metals are used for making jewellery.
2. We get _____ and _____ from petroleum.
3. Flax is used to make _____.

Leather, silk and wool

We get leather from the skin of the dead animals. It is used to make leather goods.

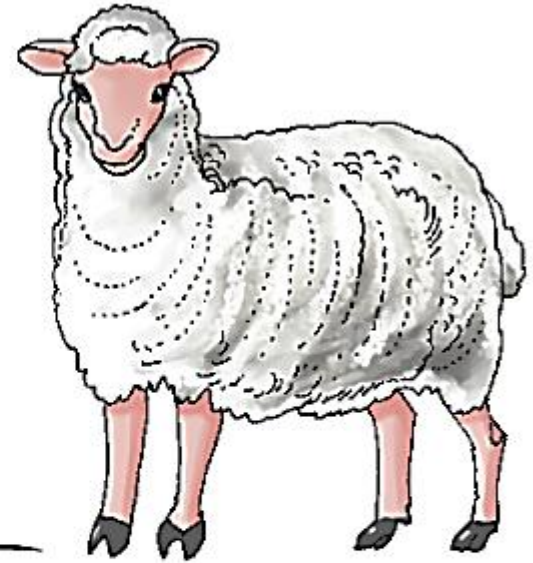
Silk thread is obtained from the cocoon of the silkworm.

We get wool from the hair of

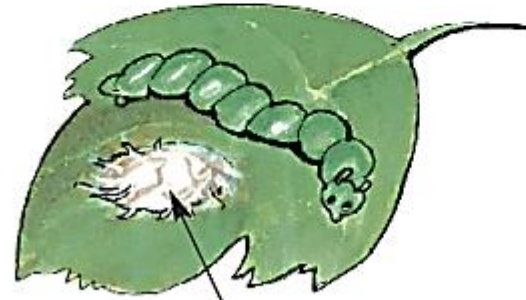
the sheep, camels etc. All these materials are used to make clothes.



Leather



Sheep



Cocoon

MAN-MADE MATERIALS

Plastic

Today plastic has become as important as wood and metals.

We make many things like ropes, toys, baskets etc. from plastic.

Plastic is made from different materials.



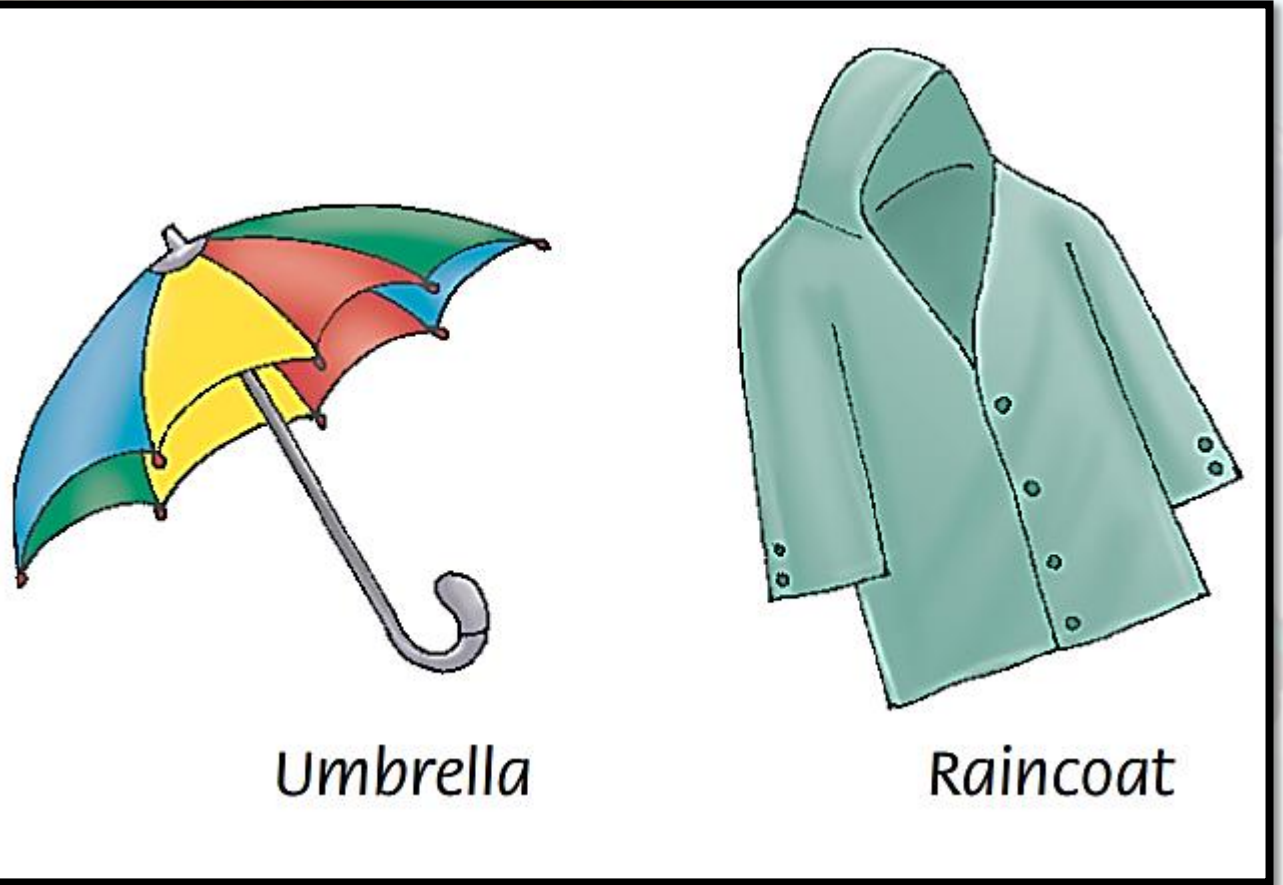
Rope



Basket

Synthetic fibre

Nylon, rayon and polyester are some synthetic fibres that are made in factories. They are used to make windcheaters, raincoats, umbrellas etc. They are also used to make synthetic clothes.



Umbrella

Raincoat

Things made of plastic do not get decomposed like the things made of natural

materials. They last for long time. This is a useful property but the other side of the picture is that plastic stays in soil forever and pollute it. Thus, we should avoid the use of plastic things to keep our environment clean.

INTERESTING FACTS

- **The earth is five billion years old although life has existed 150 million years ago.**



Fact File



- **There are three states of matter Solid, Liquid and Gas.**
- **In many countries and in many parts of our country also plastic bags are banned by the government.**



Things to Remember



- **We get different materials from the nature for making different things.**
- **I Wood, paper and fibre come from the plants. We get fibres like wool, silk and fur from animals.**
- **I Metals and petroleum come from the earth's crust.**