



CHEMISTRY

NCERT - NCERT Chemistry(Telugu)

METALS AND NON - METALS

Think And Discuss

1. How will you close the circuit using sulphur, carbon or iodine ? They may be in powder

form. Try to tightly pack the powder in a straw and use it . Think of other ways!



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2. Is our body a metal or non-metal ?



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Improve Your Learning Reflections On Concepts

1. What is ductility?



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2. Explain the physical properties of metals with suitable examples.



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3. Gold jewellery does not become dull. Why ?



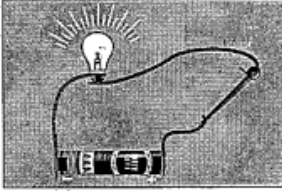
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4. Identifying the electric conductivity of a material:

Arrange an electric circuit with a battery and bulb. Close and circuit using an iron nail as shown in figure. Observe whether the bulb glows or not. Record your observations in table Repeat the same experiment using the other samples and record your observation in

the same table.

Sample	Bulb glows (yes/no)
Iron	
Zinc	
Copper	
Sulphur	
Aluminium	
Carbon	
Magnesium	
Iodine	



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5. Which gas makes a pop sound if exposed to lighted matchstick?

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Improve Your Learning Application Of Concepts

1. You are given two samples. How do you distinguish which one is metal and which is non-metals?



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2. Which metals are used in making jewellery?
Why?



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3. Why cooking pans don't have metal handles?



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4. How do you appreciate the efforts of man to use the Metals in making tools ?



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5. Why are bells made up of metals instead of wood?



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Improve Your Learning Higher Order Thinking Questions

1. You came to know that the Diamond is a hardest material and it is a non metal and similarly. Mercury is a soft material and it is a

metal. Write down the questions raised in your mind.



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2. Dumping of waste material made up of metals and non metals leads to environment pollution. Do you support the statement? Give your justification with suitable examples.



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3. In a chemical reaction iron is unable to displace zinc from zinc sulphate. Why?



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4. How do you appreciate wide range utility of aluminium right from utensils to space craft?



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5. How is malleability of metals used in our daily life?



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Improve Your Learning Multiple Choice Questions

1. Sulphur dioxide is.....

A. Sulphur dioxide, by nature is

B. Basic oxide

C. Acidic Oxide

D. Neutral Oxide

Answer: A::D



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2. Maximum metals are obtained in the state of

A. Liquid

B. Solid

C. Gaseous

D. Plasma

Answer:



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3. Some metals reacts with acids and evolve

A. Hydrogen

B. Oxygen

C. Carbon dioxide

D. Nitrogen

Answer:



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4. Non-metallic oxides are in ___ nature

A. Basic

B. Acidic

C. Nuetral

D. Dual

Answer:



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5. The property of changing the metals into sheets is _____

- A. Malleability
- B. Ductility
- C. Conductivity of heat
- D. Electric conductivity

Answer:



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Improve Your Learning Suggested Experiments

1. Write an experiment to know the reaction of oxygen with metals and non-metals.



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2. The nature of oxides helps to identify the metals and non metals conduct an experiment to prove this and record the observations.



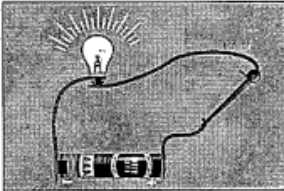
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Improve Your Learning Suggested Projects

1. Prepare a table of various metals and non-metals used in our daily life and their usage.



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2. Imagine the human life without metals, write briefly about the consequences.



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