



Srini Science Mind
Abdul Kalam Physical Science Group



NEW

8th class

PHYSICAL SCIENCE

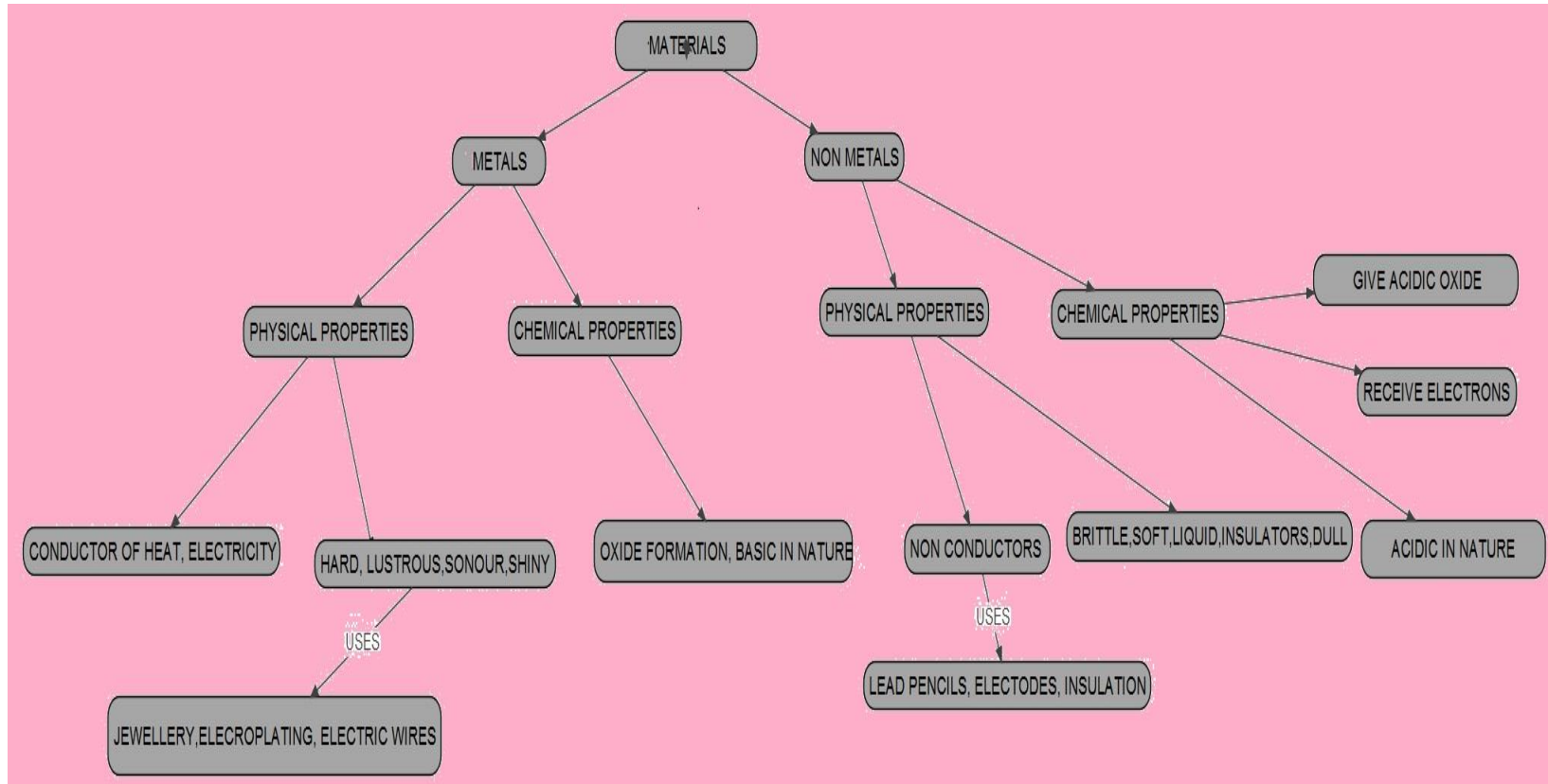
MODEL LESSON PLAN



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TEACHING LEARNING PROCESS

Induction/Introduction:



Experience and Reflection:

1. Students will learn about the types of utensils used in daily life to prepare dishes.
2. Students apply scientific knowledge to preserving tools in everyday life.
3. Students use metals and non-metals appropriately.

Explicit Teaching/Teacher Modelling (I Do)	Group Work (We Do)	Independent Work (You Do)	Notes for:
<ol style="list-style-type: none"> 1. Discussion and Explain the Hard and Lustrous physical properties of metals and non-metals. 2. Conduct an activity on the malleability of metals and non-metals with help of iron 	<ol style="list-style-type: none"> 1. Students collect information of hard and appearance of the materials. 2. Students describe the malleability property of 	<ol style="list-style-type: none"> 1. Students give examples of metals and non-metals. 2. Students give reasons why are metals malleable? 	<ol style="list-style-type: none"> 1. Name the non-metal essential for our life, which all living being inhale during breathing. 2. Can wood malleable?

<p>nail, Aluminium wire, coal piece, carbon lead and hummer.</p> <p>3. Explain and Conduct an activity on electrical conductivity of materials.</p> <p>4. Explain the ductility property of materials.</p> <p>5. Discussion and explain the sonorous property of materials.</p> <p>6. Explain and conduct an activity on the reaction of oxygen with metals.</p> <p>7. Conduct an activity on the nature of the metallic oxide with help of litmus paper.</p> <p>8. Conduct an activity of burning sulphur powder and testing of solution with litmus paper.</p> <p>9. Explain and conduct an activity on the reaction of water with metals.</p> <p>10. Discussion and explain the reaction of Metals and Non-metals with acids.</p> <p>11. Explain and conduct an activity on the reaction of Metals and Non-metals with bases.</p> <p>12. Discussion and conduct an activity on displacement reactions.</p> <p>13. Explain the uses of metals and non-metals.</p>	<p>materials.</p> <p>3. Students draw the electric tester diagram.</p> <p>4. Discuss “Goldsmiths why gold is preferred for making jewelry?”</p> <p>5. Group discussion on all metals exhibits sonorous property.</p> <p>6. Students conduct an activity and mentioned the precautions.</p> <p>7. Students observe the nature of metallic oxides.</p> <p>8. Students write the chemical equations of sulphur dioxide is dissolved in water sulphurous acid is formed.</p> <p>9. Students conduct an experiments of the reaction of acids with metals.</p> <p>10. Students collect the information of reactions of metals and non-metals with acids and bases, represent data in tabular form.</p> <p>11. Students conduct an experiment of displace reactions</p> <p>12. Students draw the flow chart of chemical properties of metals and non-metals.</p>	<p>3. Students express the procedure of the activity in their own way.</p> <p>4. Students write the physical properties of metals and non-metals.</p> <p>5. Students write the chemical equation of the reaction of oxygen with metal with a suitable example.</p> <p>6. Students complete the homework.</p> <p>7. Why don't non-metals react with water?</p> <p>8. Students describe the activity and record the precautions.</p> <p>9. What happens when metals and nonmetals react with bases?</p> <p>10. Students complete the homework.</p> <p>11. Write the uses of metals and non-metals.</p>	<p>3. Which non-metal is the best conductor of electricity.</p> <p>4. Which metal has the highest ductility?</p> <p>5. Why are metals called sonorous?</p> <p>6. Why non-metals are stored in water?</p> <p>7. What is formed when oxygen reacts with a non-metal?</p> <p>8. Why do metals react with air?</p> <p>9. How metals and non-metals react with water?</p> <p>10. Why do some metals not react with acids?</p> <p>11. Which bases do not react with metals?</p> <p>12. Why does displacement take place?</p>
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Check For Understanding Questions

1. Factual:

1. Why metals are used in ringing bells?
2. Is rust acidic, basic or neutral in nature?
3. Why are wooden or plastic handles used for cooking utensils?

2. Open Ended/Critical Thinking:

1. What happens when a copper vessel is exposed in moist air?
2. A doctor prescribed a tablet to a patient suffering from iron deficiency. The tablet does not look like iron. Why?
3. Why are sodium and potassium stored in kerosene?

3. Student Practice Questions & Activities:

1. Can you store lemon pickle in an aluminium utensil? Explain.
2. What happens when
 - (a) Dilute sulphuric acid is poured on a copper plate?
 - (b) Iron nails are placed in copper sulphate solution? Write word equations of the reactions involved.
3. What are the differences between metals and nonmetals according to their physical properties
4. What is malleability? Name two most malleable metals.

TLM's (Digital + Print)

1. Used prepared Quiz paper.
2. Utilized digital classroom.
3. Provide video links QR codes, DIKSHA App.
4. You Tube video's link

Assessment:

1. Collect the information of the uses of metals and non-metals in daily life.
2. Explain that metals are good conductors of electricity with the help of an activity.
3. When an iron knife is kept dipped in blue copper sulphate solution the solution changes to light green. Why?

SIGNATURE OF THE TEACHER

SIGNATURE OF THE HEADMASTER

VISITING OFFICER WITH REMARKS