



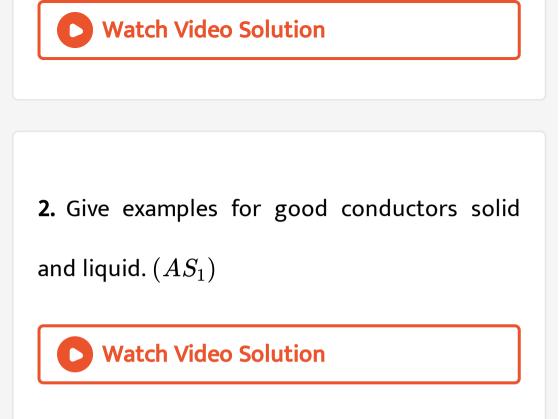
CHEMISTRY

NCERT - NCERT Chemistry(Telugu)

ELECTRICAL CONDUCTIVITY OF LIQUIDS

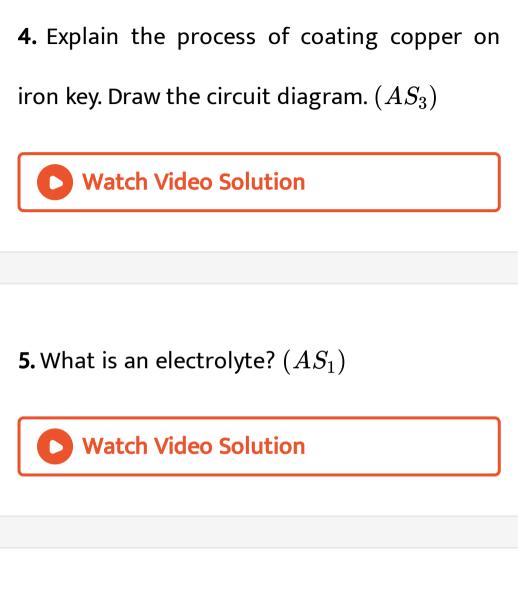
Improve Your Learning

1. Give examples for good conductors solid and liquid. (AS_1)



3. What do you add to distilled water for

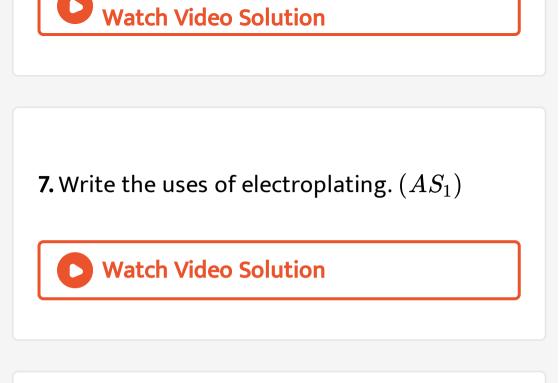
making it to conduct electricity?



6. Which energy is cause for glowing of bulb in

electrolytic cell?





8. In case of a fire, before the fire men use the

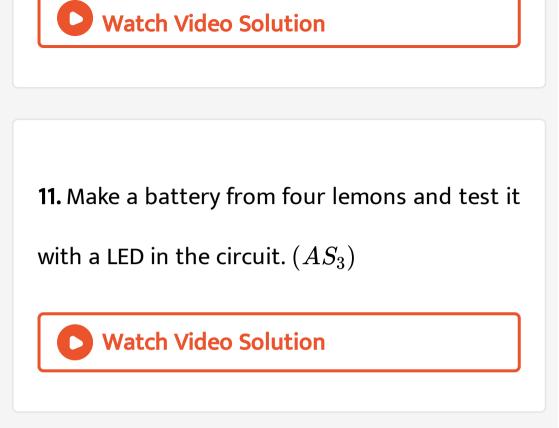
water, they shut off the main electrical supply

for the area. Explain why they do this? (AS_1)

9. Collect the information and make list of good conductors and bad conductors. How do you use this information in your daily life works. (AS_1)

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10. We get some items made from iron wire in which iron wire is coated with plastic. Plastic coated by the process of electroplating ? Why can plastic not be coated on a metal by the process of electroplating?



12. Refer to the Activity 3 in the chapter. Start with distilled water. The LED would not glow. Add two drops of some acid to distilled water and check the glow of LED. Add two more drops and check the intensity of the glow.

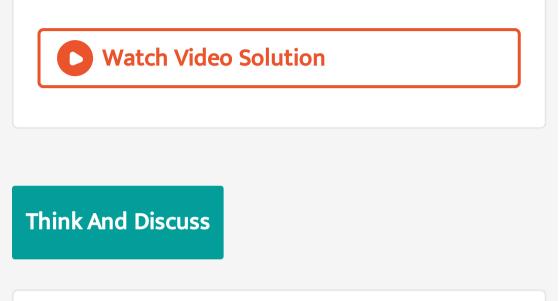
Repeat the activity 5 to 6 times by adding 2 drops of the same acid each time. Do you see any difference in the intensity of glow with increasing acid content of water? What can be inferred from the above observations? Repeat the entire activity by taking a solution of baking soda and adding drops of it to distilled water instead of acid. Write differences and similarities. (AS_3, AS_1)

13. How do you appreciate the efforts of Luigi Galvani and Alissandro Volta In discovering a cell and making a stored electric energy available to human beings?

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14. Kavya observed that a discharged dry cell which kept in sun light by her father for few hours got ability to glow LED. She got many doubts and questions to raise. Can you guess

those questions or doubts? (AS_2)



1. Why do some materials allow electric current to pass through them and why some do not?



2. What is electrolysis ? Give Faraday's first law

of electrolysis.

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3. Discuss with your teacher or collect the information about electrolysis method form your school library books.

4. Why do some materials allow electric current to pass through them and why some do not?



5. If a battery is packed in a box and if only two wires from two terminals are given out, how can we decide the positive and negative terininal of the battery ?



6. What is electrolysis ? Give Faraday's first law

of electrolysis.

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Improve Your Learning Refelection On Concepts

1. Give examples for poor solid conductors and

liquid conductors.

2. Give examples for poor solid conductors and

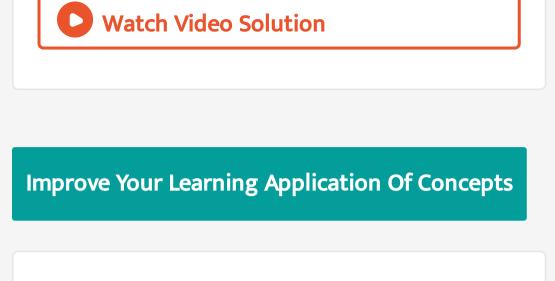
liquid conductors.



3. Give two examples for electrolyte.

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4. Draw the diagram of Electrolytic cell and explain.



- 1. Which energy is cause for glowing of bulb in
- electrolytic cell?



2. What do you add to distilled water for

making it to conduct electricity?



3. Kavya observed that a discharged dry cell which kept in sun light by her father for few hours got ability to glow LED. She got many doubts and questions to raise. Can you guess those questions or doubts? (AS_2)

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4. Make a battery from four lemons and test it

with a LED in the circuit. (AS_3)



5. Collect the information and make list of good conductors and bad conductors. How do you use this information in your daily life works. (AS_1)

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Improve Your Learning Higher Order Thinking Questions **1.** If the key is to be coated with aluminium instead of copper, what changes do we need to make in the experiment of coating on iron key with copper?



2. Is plastic coated by the process of électroplating?why? Watch Video Solution

1. Which of the following is also used in

ornamentation and decoration ?

A. Electro typing

- B. Electro plating
- C. Electro printing
- D. Galvanizing

Answer:





2. Pure water is a

A. Electric conductor

B. Semi conductor

C. Insulator

D. Resistor

Answer:

3. The material which does not allow electric current to pass through it is known as.

A. Electric conductor

B. Insulator

C. Electric resistance

D. Semi conductor

Answer:

4. Electroplating is possible through.

A. Electrolysis

B. Chemical process

C. Dissolving

D. Filtration

Answer:



5. One of the following is not an electrolyte

- A. Sulphuric acid
- B. Lemon juice
- C. Tamarind juice
- D. Detergent solution

Answer:

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Improve Your Learning Suggested Experiments

 Collect information from internet and other sources about blood clotting and prepare a note on it.



2. Conduct an experiment for testing the electric conductivity of electrolytes.



3. Conduct an experiment for testing the electric conductivity of electrolytes.
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4. What happens if we use a fuse made up of same wire which is used to make the electric circuit ?

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Improve Your Learning Suggested Projects

1. Collect the information from various sources

on the applications of electroplating In daily

life and prepare a report on that.