

Chapter 2: Acids, Bases and Salts

Experiential Learning

Activity-1: Magic colour changing flower

- Soak the flower (white) in phenolphthalein.
- Allow the flower to dry.
- Once the flower dries, spray NH_3 to turn it to pink.
- After some time the flower turns white again because CO_2 in air combines with water to form carbonic acid (Phenolphthalein is colourless in acid)

Activity 2: Secret message by chemicals

- Invisible ink works because of indicators.
- Use phenolphthalein to write a message on a piece of paper and let it dry.
- Spray NaOH solution on the paper to reveal the message.

Questions:

- How NaOH solution helps to reveal the message?
- What is the colour of phenolphthalein in basic medium?

Activity-3 Chemistry Art

Home decors by Plaster of Paris.

- Plaster of Paris is not only just for patching up wall you can use it to create gorgeous home decor project.
- Student will make home decors like toys, vase etc. using POP

Question:

- Why does POP become hard upon mixing with water?

Curiosity Questions:

Do we drink acid occasionally?

Answer guide:

Think about:

- What are organic acids?
- Is there any way to test acid without tasting it?

Curiosity questions:

Question:

Why is NaHCO_3 mixed with edible acid for making Baking powder?

Answer guide:

Think about:

What is the nature of Na_2CO_3 ?

Does base taste bitter?

What type of salt is formed when a weak acid reacts with a weak base?