

Science Worksheet
Acids, Bases and Salts

Q1. Riddles

- I am a natural indicator. I turn my pink colour to deep pink in an acid and green in a basic solution. I am _____
- I am an organic dye. I am colourless. Bases turn me pink while acid and neutral substances do not affect me. I am _____
- I am yellow coloured natural indicator. I turn red in a base while acid and neutral substances do not affect me. I am _____
- I am a synthetic indicator. I turn red in acidic solution and yellow in basic solution. I am _____

Q2. What are the effect of sulphuric acid on the following:

- Red litmus
- Blue litmus.

Q3. Give reason for the following.

- Toothpaste prevents tooth decay.
- Baking soda paste is advised to rub on a bee sting.
- Farmer should add decaying organic matter (manure or compost) in his field if the soil is too basic.
- If we touch the test-tube immediately after carrying out the neutralisation reaction of an acid and base in it, it is found to be somewhat hot.

Q4. Answer the following question.

- An element burns with a dazzling white light forming a compound which when dissolved in water changes red litmus blue. Identify the element and write down the reaction involved.
- Differentiate between mineral and organic acid. Give two examples for each.
- What is neutralization reaction? Give one example.