At Junior Certificate level the student can:

**Recognise different substances and carry out separation techniques**

**Learning Targets** - This has been demonstrated by your ability to:

1. Follow instructions with accuracy and care
2. Perform an experiment to demonstrate knowledge of the three states of matter
3. Perform an experiment to show the solubility of substances in water
4. Separate mixtures using filtration
5. Separate mixtures using evaporation
6. Separate mixtures using distillation
7. Separate colours using paper chromatography
8. Grow crystals using alum or copper sulphate
9. Use litmus or a universal indicator to test a variety of solutions and classify these as acidic, base or neutral
10. Investigate the pH of a variety of materials using the pH scale

Refer also to: Art, Home Economics, Personal and Social Development, Physical Education.