At Junior Certificate level the student can:

Understand some of the key principles of
the chemistry of air and water

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

1. Understand that air is a mixture of gases and show some knowledge of it’s make-up
2. Demonstrate and describe what happens when (i) a wooden splint and (ii) a piece of magnesium are burned in air
3. Investigate the ability of oxygen to support combustion
4. Describe how a sample of oxygen is prepared, naming chemicals and apparatus used
5. Describe how a sample of carbon dioxide is prepared, naming chemicals and apparatus used
6. Carry out simple tests to show the presence of carbon dioxide using limewater or candles
7. Test a sample of water for hardness
8. Test a sample to show the presence of dissolved substances in water
9. Draw the water cycle and describe the key stages in the treatment of water to make it suitable for drinking
10. Carry out an experiment to show that oxygen and water are required for rusting

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