At Junior Certificate level the student can:

Understand the concepts of magnetism, electrical conduction and the main properties of light

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

1. Identify north and south poles of a magnet by simple experiments
2. Carry out experiments to show attraction and repulsion between magnets
3. Test a variety of materials for magnetism
4. Show understanding of the term magnetic field and plot the magnetic field of a bar magnet
5. Test electrical conduction in a variety of materials, and classify each material as a conductor or an insulator
6. Describe how to wire a plug correctly and explain the safety role of a fuse or circuit breaker in domestic electric circuits
7. Understand that light is a form of energy, which can be converted to other forms of energy
8. Show that light travels in straight lines and explain how shadows are formed
9. Investigate the reflection of light by plane mirrors
10. Demonstrate and explain the operation of a simple periscope
11. Understand that white light is made up of different colours, by producing a spectrum of white light using appropriate apparatus and list the colours of the spectrum

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