At Junior Certificate level I can:

Apply my knowledge of Magnetism, Electricity and Electronics

Learning Targets I can...

1. Show the attraction and repulsion between magnets and test different materials for magnetism
2. Create a static electricity charge using simple materials and demonstrate the effect of earthing charged objects
3. Perform a test to see if an object is an insulator or conductor of electricity using an electrical circuit
4. Distinguish between direct current (DC) and alternating current (AC) and state the type of current and the voltage of the mains electricity supply
5. Calculate the cost in euros of running an electrical appliance using the power rating of the appliance, the duration of use and the price of mains electricity
6. Wire the plug of an electrical device correctly and identify the locations of the live, neutral and earth wires
7. Describe how a fuse in an electrical circuit works as a safety measure against overheating
8. Explain the importance of a circuit breaker or fuse board in the home
9. Set up a simple circuit using switches, LEDs, resistors and buzzers
10. Give an example of the use of LEDs and LDRs in everyday life

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