Lesson 8: Student's worksheet

Aim: To understand the relationship between wire thickness, colour codes, and typical applications in electrical wiring systems.

1. You are provided with wires of different colours (representing the Live, Neutral and Earth), and of different thicknesses (1.5mm^2 , 2.5mm^2 and 4mm^2).
2. You are also provided with pictures (on the last page) that illustrate the places where different thicknesses are typically used.

Procedure:

1. Use the wires provided to you and stick them in the 'Wire' column on the next page according to their colour coding and thickness. Use the tape provided to secure the wires in place."
2. Cut out the pictures provided and stick them to their respective thickness of wires in the column named 'Typical use'. Use paper glue.

Complete the table below which represents the thicknesses and colour codes of wires to their respective uses.

Wire Thickness (mm^2)	Colour-codes	Wires	Typical use
1.5	Live Neutral		
2.5	Live Neutral Earth		
4.0	Live Neutral Earth		

Pictures where different thicknesses of wires are used.

Kettle

Industrial Socket

Lights