

Student sheet: Electrical Safety – Home Electrical Safety.

Objectives:

By the end of the session you will be able to explain how the earth, together with a fuse, provides protection for the user, know the features of a safe plug, and describe the advantages of circuit breaker.

Resources required:

Display of incorrectly wired plugs, damaged plugs, fuses and circuit breakers. Plug, cable, and screwdriver. Access to internet for www.twothirtyvolts.org

Introduction:

Access and review the 'Electrical Safety' section at www.twothirtyvolts.org and the House Electrical Circuits Student Revision Notes in the 'Education' section.

Activity:

Working in pairs undertake the following tasks:

- Label diagram of plugs with colours and names of parts on the Worksheet.
- Wire a plug and ask teacher to review once complete.
- Review samples of items and record on Worksheet what is wrong.

Further work:

- Complete Electrical Safety in the Home Student Quiz at www.twothirtyvolts.org .
- Produce instruction leaflet on wiring a plug safely and correctly.

Linked Resources

www.twothirtyvolts.org:

'Electrical Safety' section

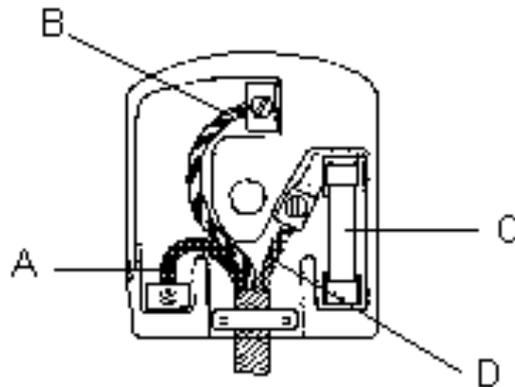
House Electrical Circuits 11-14 Student Revision Notes

Electrical Safety in the Home 11-14 Student Revision Notes

Electrical Safety in the Home 11-14 Revision Quiz

Worksheet: Electrical Safety – Home Electrical Safety.

Electric Plug:



Observations on Displayed Items: