

Student task sheet: Toy with electrical circuit

Your task is to produce a stuffed toy which incorporates an electrical circuit that allows for some kind of movement. For example, flashing eyes, moving limbs, nodding head etc. The circuit must be a closed circuit with an on/off switch.

You will have six hours of class time to complete this task, so you will need to plan your time carefully.

The rubric sets out the assessment criteria for this task.

Your assessment will be based on:

- a) Log book which contains
 - at least three sketches of possible designs for the toy and an indication of the design selected by you for development
 - your labelled circuit diagram
 - labelled sketches and diagrams, using correct scientific terminology, to show any modifications you made as a result of problems encountered.
- b) Your finished and functioning toy.
- c) An oral presentation to the class or another group of students, in which you
 - introduce your design and describe the process that you used to create the toy
 - describe any difficulties you encountered
 - explain how you overcame those difficulties.

Your oral presentation should be supported by a PowerPoint presentation or a poster.