

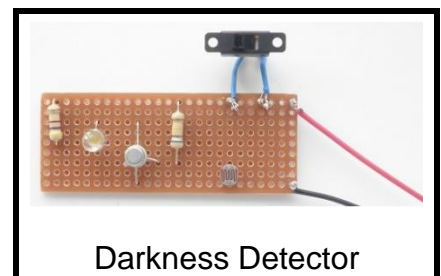
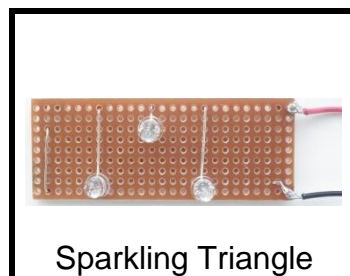
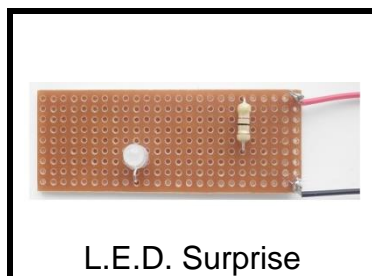
Optoelectronics Trio

Circuit Construction for Beginners

Optoelectronics - a combination of light and electronics.

A light-emitting diode (or l.e.d.) is one example of an optoelectrical device. L.e.d.s are often built into electrical appliances to show that they are either switched on, switched off or in stand-by mode - useful but not that exciting!

These circuits will introduce you to other optoelectrical devices:



The circuit in Activity 1 is a real surprise - such a simple circuit and yet such a beautiful display!

In Activity 2, three l.e.d.s are soldered to track board to give a dazzling spectacle!

Who hasn't been afraid of the dark at some point? The l.e.d. in Activity 3 automatically switches on as darkness falls and switches off as the light level increases.

Further information on these circuits at:

www.irbyelectronics.co.uk

See the circuits in action on:

[Irby Electronics YouTube Channel](#)