

LED Assortments (Red, Green, Blue, Yellow, RGB)

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping



Photo: <http://www.nist.gov> — Public domain — via Wikimedia Commons (Assorted_LED_Lamps.jpg)

LED assortments provide 5 mm and 3 mm LEDs in the primary colours plus RGB types for status lights, displays, traffic lights and countless prototype builds. With resistors sorted alongside, students wire visual outputs in minutes.

Key Features

- 5 mm and 3 mm packages
- Red, green, blue, yellow, white
- RGB common cathode and anode
- Assorted brightness grades
- Resistor companion packs

Typical Uses in the Workshop

- Status and indicator lights
- Traffic light and gamedemos
- RGB colour mixing and effects
- Backlighting models and displays

Safe Operation

1. Note the anode and cathode legs
2. Current-limit every LED with a resistor
3. Check the forward voltage for the colour
4. Wire the LED in the correct direction
5. Test before final assembly

SAFETY NOTES

- LEDs are polarised - check before wiring
- Never connect an LED without a resistor
- Avoid looking directly into bright LEDs
- Keep leads clear of each other
- Store LEDs with leads protected

Maintenance & Consumables

- Keep assortments sorted by colour
- Test unknown LEDs with a battery and resistor
- Restock common colours
- Store in labelled compartments
- Check lead corrosion

Specification & Buying Notes

Colour-sorted LED assortments with a resistor pack make class work smooth. Quality LEDs are consistent in brightness; mixed bins cause confusion.