

Benchtop Magnifying Lamps

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

A benchtop magnifying lamp combines a magnifying lens with an LED ring light on an articulated arm, bringing small electronics, soldering work and fine assembly detail into clear view. It reduces eye strain and mistakes on tiny components and joints.

Key Features

- Lens diameters from 3 to 5 dioptre
- Ring LED or fluorescent illumination
- Articulated arms hold position
- Clamp and base mounting options
- Built-in spare lens or replacement covers

Typical Uses in the Workshop

- Inspect solder joints and fine PCB work
- Read tiny component markings and codes
- Assemble jewellery, models and small mechanisms
- Check work under even, shadow-free light

Safe Operation

1. Position the lens over the work area
2. Adjust the light angle to eliminate shadows
3. Focus by moving the head to the working distance
4. Use the tilting and rotating arm joints
5. Switch off when not in use to save bulbs

SAFETY NOTES

- Do not use the lens as a magnifier for sunlight - fire risk
- Keep the lamp away from water
- Replace the bulb or LED module with the power off
- Use a stable bench position so it cannot fall
- Do not use the lamp to dry or heat anything

Maintenance & Consumables

- Clean the lens with a soft lens cloth
- Check the arm joints and tighten as needed
- Replace the lamp when it flickers or dims
- Keep the power lead clear of the work area
- Store with the arm folded when not used

Specification & Buying Notes

Choose a 5 dioptre lens with LED ring light and a sturdy arm. Clamp-mounted lamps save bench space. Check the lens is glass, not plastic, for scratch resistance in class use.