

Threaded Rods (All-Thread)

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Fasteners & Hardware



Photo: Dg-505 — CC BY 3.0 — via Wikimedia Commons (The_Roof_Opening_Is_For_The_Threaded_Rods_-_panoramio.jpg)

Threaded rod (all-thread) is a continuous length of threaded bar cut to any length for studs, hanger rods, threaded spacers and custom fasteners. Zinc-plated steel and stainless grades suit indoor and outdoor work.

Key Features

- Metric M3-M20 and imperial sizes
- Zinc, galvanised and stainless finishes
- Cut with a hacksaw or bolt cutters
- Nuts spin the full length
- Mild steel strength grades

Typical Uses in the Workshop

- Make studs and hanger rods
- Build threaded spacers and standoffs
- Construct frames with full-length threads
- Repair and extend fixings

Safe Operation

1. Measure and mark the length
2. Cut with a hacksaw in a vice
3. Chamfer the cut end with a file
4. Run a nut over the thread to clean it
5. Assemble with nuts and washers

SAFETY NOTES

- Wear gloves - cut ends are sharp
- Eye protection when cutting
- Clamp the rod securely in a vice
- File the burrs before handling
- Store upright in a rack

Maintenance & Consumables

- Keep rods dry and lightly oiled
- Store upright sorted by diameter
- Check threads for damage
- Keep nuts to match sizes
- Cut clean new lengths as needed

Specification & Buying Notes

Stock M4-M10 zinc-plated threaded rod plus matching nuts and washers. Stainless costs more but suits outdoor work. Buy in metre lengths and cut as needed.