



Gel Electrophoresis Enrichment Box

This kit was developed as an enrichment activity for your students. The equipment was donated to our department. I hope the activities found in this binder will enhance your lesson and further support, the teaching and learning that is occurring in your classroom each day.

Available equipment and materials (for all lessons)

- Gel electrophoresis classroom set-up (power supply, gel box, comb; 10 sets)
- Practice pipetting gel stations (10)
- Agarose
- Food coloring/dyes
- Buffer solution (TBE)
- MicroPipettes for 10 – 1000 μ L and tips
- Weighing boats
- Beral pipets
- Filter paper
- Markers
- Cups and/or beakers
- Rulers
- Transparency film
- Stainless steel wire
- Wire cutters
- Small plastic box (3" x 5" / 8 x 12 cm)
- Gel comb (or two craft sticks and wooden coffee stirrers)
- Masking tape
- Two 5" (12 cm) pieces of stainless steel wire (* paperclips can be used but will rust)
- Two electrical leads with alligator clips
- Five, 9-volt batteries
- Water
- Baking soda
- Agar-agar powder
- Exacto knife
- Glycerin/glycerol
- Needle-tip disposable pipette *
- Hot plates
- Eppendorf tubes (microtubes for storage of solutions)

[Equipment Checkout form](#)

[Loan Agreement form](#)