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Product Name :

Environmental Chemistry: Water Treatment & Filtration

Product Code :

SLE/CH/129



Description :

Environmental Chemistry: Water Treatment & Filtration (Product Code: SLE/CH/129) is a hands-on kit in which students carry out, on a small scale, several of the procedures used at a water treatment plant on a sample of ‘polluted’ water. They learn what each stage does and whyit is needed, and they examine how the water changes after every step. Supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, it is a practical waterpurification science kit for schools, with enough materials for 15 groups plus a teacher’s manualand student copy masters.

Key Details

Parameter	Detail
Type	Water treatment activity kit
Investigation	Small-scale treatment of ‘polluted’ water using several treatment-plant procedures
Observations	Clarity, colour and odour of the water from the start of treatment to the end
Group capacity	Enough materials for 15 groups
Teaching material	Teacher’s manual and student copy masters

Typical Use

Municipal plants clean water in stages – typically removing large debris, clumping fine particles together so they settle, filtering what remains and finally disinfecting. This kit lets each group reproduce several of those stages at bench scale. After every step students pour off a small sample and describe its clarity, colour and odour, so they can see which stage removes which kind of contamination and explain the reason each process exists.

A simple way to organise the lesson is to line up a labelled jar from each stage along the bench, turning the class results into a visual timeline from dirty to clear. Remind students that clear water is not necessarily safe water and that nothing produced in the activity should be tasted. The kit fits environmental science, chemistry and geography units, and makes a useful chemistry experiment kit in India for exploring separation techniques in a real-world context.

Supplier

Water Treatment & Filtration is supplied by Jain Scientific Equipments Private Limited, trading as ScienceLab, from Ambala, Haryana, India. The company equips school and college laboratories with apparatus, kits and consumables; see our company profile for more.

Related Chemistry Lab Equipment

Consumables and test kits that pair well with a water treatment practical: