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Product Name :

Environmental Chemistry: Nitrates, Phosphates & Eutrophication

Product Code :

SLE/CH/128



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Description :

Environmental Chemistry: Nitrates, Phosphates & Eutrophication (Product Code: SLE/CH/128) is a water-pollution investigation in which students build miniature ‘ponds’ and compare what happens when nitrates, phosphates, or a combination of the two are added. Along the way learners come to appreciate the importance and value of fresh water and the need to protect and conserve it. With enough materials for 15 groups and a teacher’s manual plus student copy masters, it works as a complete ecology science kit for India’s secondary classrooms and is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Key Details

Parameter	Detail
Type	Water-pollution activity kit
Investigation	Effects of nitrates, of phosphates and of both together in miniature ‘ponds’
Group capacity	Enough materials for 15 groups
Teaching material	Teacher’s manual and student copy masters
Learning outcomes	Point-source versus non-point-source pollution; role of nitrates and phosphates in eutrophication; natural and human contributions to water pollution

Typical Use

Eutrophication begins when excess nutrients reach a lake or pond, feeding a surge of algae; when that growth dies and decays, oxygen in the water is used up and other aquatic life suffers. In this lab each group prepares a set of small ponds, doses them with nitrate, phosphate or both, and then observes and examines how the water changes over time – colour, cloudiness and visible growth. Comparing the three treatments shows students which nutrient drives the change and why the combination matters, while the accompanying discussion shows that a variety of factors, including natural ones, contribute to the overall problem of water pollution.

Keep every pond in the same light and temperature, label them clearly and ask students to keep a dated log with sketches or photographs. Many teachers add a plain-water pond for comparison. By the end, learners should be able to explain the difference between a point source, such as a single discharge pipe, and non-point sources like run-off from fields, which is exactly the kind of outcome a well-structured science kit with manual in India is expected to deliver.

Supplier

The kit is supplied by Jain Scientific Equipments Private Limited, which trades as ScienceLab and operates from Ambala, Haryana, India, serving schools, colleges and training institutes. Our company profile describes the business in more detail.

Related Chemistry Lab Equipment

Items

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