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Product Name :

Rust Race Lab Investigation

Product Code :

SLE/CH/173



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Description :

Rust Race Lab Investigation (Product Code: SLE/CH/173) introduces oxidation-reduction reactions through a problem every student has seen: iron and other metals slowly corroding. Working in teams, the class performs redox reactions, measures how much oxygen is used up as metal corrodes, tests which metals corrode, and compares how well different rust inhibitorsprotect a surface. Planned for a class size of 40 students, it is a chemistry experiment kit forIndia's secondary and junior college classrooms, supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Type	Lab investigation on oxidation-reduction and metal corrosion
Conceptintroduced	Oxidation-reduction reactions
Activities	Perform oxidation-reduction reactions; measure oxygen consumption during metal corrosion; test metals for corrosion; compare the effectiveness of rust inhibitors
Class size	40 students

Typical Use

The investigation works well as a short sequence rather than a single lesson. Students begin with simple redox reactions to see electrons being transferred between a metal and a solution, then set up corrosion samples that are left for a period and checked at intervals. Measuring oxygen consumption turns rusting from a vague idea into a quantity: as iron corrodes in a closed space, the loss of oxygen can be observed and recorded, which reinforces why air and moisture are both needed for rust to form.

The "race" element comes from comparing samples side by side. Teams test different metals and different protective treatments, predict which will corrode fastest, and then judge the rust inhibitors on their own evidence. This leads naturally into discussion of painting, oiling, galvanising and sacrificial protection in bridges, vehicles and pipelines. Label every sample clearly, keep a dated observation log and wear eye protection when handling any solutions.

Supplier

Jain Scientific Equipments Private Limited, known to schools as ScienceLab, supplies this investigation from Ambala, Haryana, as part of a wider catalogue of chemistry kits, glassware and apparatus for teaching laboratories. Our company profile gives an overview of the business.

Related Chemistry Lab Equipment

These items build on the redox and corrosion ideas covered in the Rust Race:

- Daniell Cell — shows redox reactions producing a measurable electric current
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