

Soil & Water Testing

LAB SIMULATOR

Duration: 25 min • Grades 6-8 • Facilitator-led

Overview

A guided simulation where students collect virtual samples, run tests, and interpret results to recommend nutrients or irrigation changes for a struggling field.

Learning Objectives

- Perform basic pH and nutrient interpretation
- Connect chemistry to plant health
- Make evidence-based recommendations

Materials Needed

- Browser device
- Lab notebook page (printable)

Facilitator Flow

- 1 Set the scene (3 min): 'This field is failing — help the farmer.'
- 2 Sample (5 min): collect from three plots.
- 3 Test (10 min): run pH, nitrogen, and moisture tests.
- 4 Diagnose (5 min): write a recommendation.
- 5 Compare (2 min): review class answers vs. the expert's.

Want the full activity + facilitator guide?

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