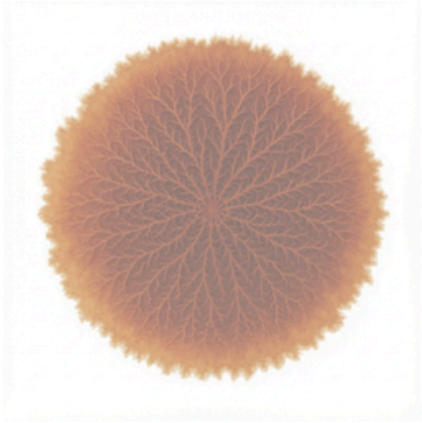
Reactive Surface Experiments (RSE)

Classroom Field Kit

A Shared Laboratory

Reactive Surface Experiments — Commons Edition

Program 10 — Open Exploration



Program 10 — Open Exploration

When the Field Is Wide

Purpose of This Program

This program provides space for open exploration beyond structured comparison. Participants design and document experiments guided by curiosity, intuition, or emerging questions.

All previous programs establish tools for observation. This program allows those tools to be used freely.
The goal is not to complete an assignment. The goal is to explore responsibly.

What This Program Explores

Participants may investigate:
- Combined variables
- Unusual applications
- New materials or surfaces
- Questions raised by earlier programs

There is no required structure beyond documentation.
Observation remains the priority.

Suggested Approach

Design an experiment based on interest or curiosity.

Use the standard lab sheet to record:
- What was attempted
- What was observed
- What remains unclear

Participants are encouraged to note intention, even if outcomes are ambiguous.

What to Pay Attention To

When documenting this program, give particular attention to:
- What motivated the experiment
- Unexpected interactions
- New questions raised
- Limits encountered

Not every experiment needs resolution.

Why This Program Comes Last

After learning to observe entry, dilution, time, atmosphere, application, surface, edges, failure, and repeatability, participants are equipped to explore without losing rigor.

This program marks the transition from instruction to inquiry.

Reactive Surface Experiments (RSE)
Lab Sheet — Community Submission

Lab Sheet Code

QR placeholder

Experiment Title: _____

Section A — Experiment Identification

Field	Entry
Program Type	☐ Law of Entry ☐ Dilution ☐ Time-Series ☐ Atmosphere ☐ Application ☐ Substrate ☐ Failure ☐ Edge ☐ Repeatability ☐ Open
Date	_____
Contributor / Class Code	_____

Small type note: Not all fields are required. Record what is known.

Section B — Reactive Chemistry

Field	Entry
Reactive Substance (chemical name)	_____
Solution Type	☐ Aqueous ☐ Other
Dilution / Concentration	_____

Section C — Substrate & Surface Condition

Field	Entry
Substrate Type	☐ RSE Paper ☐ Other
Paper Batch / Source (if known)	_____
Surface Condition	☐ Dry ☐ Pre-wet ☐ Other
Surface Preparation Notes	_____

Section D — Application & Entry Method

Field	Entry
Method of Application	☐ Brush ☐ Mist ☐ Cascade ☐ Submersion ☐ Other
Estimated Volume	☐ Drops ☐ mL ☐ Light ☐ Heavy
Application Speed / Notes	_____

Not everything needs to be explained. Some things only need to be observed — together.

Section E — Environment

Field	Entry
Ambient Temperature	_____ °C / °F
Ambient Humidity	_____ % / □ Low □ Med □ High
Drying Condition	□ Open Air □ Boxed □ Covered □ Forced

Entry determines reaction. Everything above describes what was allowed to enter.

OBSERVATION & INTERPRETATION

(What happened, when, and how it was perceived)
This page privileges **language and attention**, not correctness.

Section F — Time & Change

Field	Entry
Time to First Visible Change	□ Seconds □ Minutes □ Hours □ Unknown
Total Observation Duration	_____

Section G — Visual Outcome (Descriptive, Not Evaluative)
Color Description (words, not codes):

Pattern / Behavior Observed:
□ Bloom
□ Migration
□ Edge Darkening
□ Collapse
□ Uniform
□ Other: _____
Uniformity:
□ Even □ Uneven □ Localized

Section H — Unexpected or Partial Outcomes
□ No
□ Yes → Describe:

Unexpected results are valid data.

Section I — Images (Uploaded Separately)

Field	Entry
Image Type	□ Still □ Time Series
Image Timing	□ Immediate □ Delayed □ Multiple
Notes on Images	_____

Section J — Confidence & Uncertainty

Field	Entry
Confidence in Recorded Data	□ High □ Moderate □ Low
Known Unknowns / Estimates	_____

Section K — Open Notes & Questions