

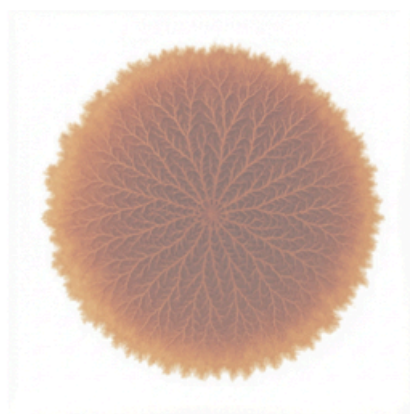
# Reactive Surface Experiments (RSE)

## Classroom Field Kit

A Shared Laboratory

Reactive Surface Experiments — Commons Edition

## Program 7 — Edge & Boundary Behavior



# Program 7 — Edge & Boundary Behavior

## *Where Movement Stops, Structure Appears*

### **Purpose of This Program**

This program examines how reactions behave at edges, boundaries, and transitions. Participants observe how reactive movement changes when it encounters limits — physical, material, or chemical.

Edges are not merely endpoints. They often reveal the underlying logic of movement, arrest, and accumulation. The goal is not to eliminate edges. The goal is to read them.

### **What This Program Explores**

#### **Participants investigate how reactions behave near:**

- Physical edges of the substrate
- Transitions between surface conditions
- Boundaries created by masking or compression
- Zones of differing absorbency

Chemistry, dilution, application, and environment are held constant. Only boundary conditions are allowed to vary.

### **Suggested Approach**

Prepare surfaces with intentional boundaries.

Apply a single reactive solution across both open fields and edges.

#### **Observe:**

- Accumulation at edges
- Darkening or intensification near boundaries
- Abrupt vs gradual arrest
- Directional changes in migration

Edges often reveal behavior that remains hidden in open fields.

### **What to Pay Attention To**

#### **When documenting this program, give particular attention to:**

- Type of edge or boundary
- Distance of migration before arrest
- Differences between interior and boundary behavior
- Evidence of secondary fixation at edges

Edges are records of movement, not decoration.

### **Why This Program Comes Seventh**

After understanding how reactions enter, move, and interact with surfaces, boundaries become readable as structural features.

This program prepares participants to interpret edges as evidence of process rather than flaws.

#### **If you give the nod, the remaining steps are clean and contained:**

- **Programs 8–10** *Failure · Repeatability · Open Exploration*
- A short **Field Kit intro page**
- Or a **single-page program map** showing how all 10 relate



Experiment Title: \_\_\_\_\_

### Section A — Experiment Identification

Field	Entry
Program Type	<input type="checkbox"/> Law of Entry <input type="checkbox"/> Dilution <input type="checkbox"/> Time-Series <input type="checkbox"/> Atmosphere <input type="checkbox"/> Application <input type="checkbox"/> Substrate <input type="checkbox"/> Failure <input type="checkbox"/> Edge <input type="checkbox"/> Repeatability <input type="checkbox"/> 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	<input type="checkbox"/> Aqueous <input type="checkbox"/> Other
Dilution / Concentration	_____

### Section C — Substrate & Surface Condition

Field	Entry
Substrate Type	<input type="checkbox"/> RSE Paper <input type="checkbox"/> Other
Paper Batch / Source (if known)	_____
Surface Condition	<input type="checkbox"/> Dry <input type="checkbox"/> Pre-wet <input type="checkbox"/> Other
Surface Preparation Notes	_____

### Section D — Application & Entry Method

Field	Entry
Method of Application	<input type="checkbox"/> Brush <input type="checkbox"/> Mist <input type="checkbox"/> Cascade <input type="checkbox"/> Submersion <input type="checkbox"/> Other
Estimated Volume	<input type="checkbox"/> Drops <input type="checkbox"/> mL <input type="checkbox"/> Light <input type="checkbox"/> Heavy
Application Speed / Notes	_____

Reactive Patinas™ — RSE Program

*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	_____ % / <input type="checkbox"/> Low <input type="checkbox"/> Med <input type="checkbox"/> High
Drying Condition	<input type="checkbox"/> Open Air <input type="checkbox"/> Boxed <input type="checkbox"/> Covered <input type="checkbox"/> Forced

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

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## OBSERVATION & INTERPRETATION

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(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	<input type="checkbox"/> Seconds <input type="checkbox"/> Minutes <input type="checkbox"/> Hours <input type="checkbox"/> 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:

<p><i>Unexpected results are valid data.</i></p>
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**Section I — Images (Uploaded Separately)**

Field	Entry
Image Type	<input type="checkbox"/> Still <input type="checkbox"/> Time Series
Image Timing	<input type="checkbox"/> Immediate <input type="checkbox"/> Delayed <input type="checkbox"/> Multiple
Notes on Images	_____

**Section J — Confidence & Uncertainty**

Field	Entry
Confidence in Recorded Data	<input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low
Known Unknowns / Estimates	_____

**Section K — Open Notes & Questions**