Sprouts Game Complexity — Field Checklist

1. Board Setup

- Number all spots and write total lives in the margin.
- Reserve space for dashed boxes to mark new lands.
- Keep one pen style per line type to avoid confusion.

2. Turn Routine

- Before drawing, scan for regions with spare lives and clean paths.
- After drawing, update the life ledger and circle dead vertices.
- If a self-loop splits the board, outline both lands immediately.

3. Midgame Control

- Compare lives to the 2n floor and the 3n-1 ceiling; pace choices.
- Prefer lines that create safe pockets over flashy closures.
- Delay risky self-loops when lives are thin in nearby lands.

4. Decomposition & Notes

- Label each land and jot a tiny value or status next to it.
- If lands are independent, plan them separately before recombining.
- Record forks with a short branch log (A/B) to enable quick backtracking.

5. Endgame Focus

- Identify the two most open pockets; fight to claim at least one.
- Avoid moves that exhaust lives without gaining control of a region.
- Recheck ledger math before committing to a final loop.

6. Review & Learning

- Photograph final boards and save life counts plus move totals.
- Note which heuristics prevented wasted lines; keep a top-3 list.
- Convert good sequences into small drills for future practice.

7. Data & Benchmarking

- Track start size, final move count, surviving lands, and outcome.
- Use consistent naming for encodings to compare results across sessions.
- Log player performance metrics for objective progress tracking.

Footer

- Keep this sheet near the board; rehearse the routine for five minutes before play.
- Update the sheet when you add new heuristics or encounter edge cases.