Deep Dive · Savannah Marrero

Alpha School Brownsville | Grade 8 | MS Physics | Generated Feb 14, 2026

SECTION 1 · Student Snapshot

Student	Campus	Enroll Grade	Current Course	Age Grade	Course Grade	HMG
Savannah Marrero	Brownsville	8	MS Physics	8	6 - 8	6

HMG = 6 (not 'working in'). Knowledge Grade = 7, Effective Grade = 5, R90 = 4.
Chemistry complete. Now in Physics but has not broken through to grade 7 mastery.
Effective Grades Mastered This Year = 0.

SECTION 2 · Course Progress & Effort

% Complete	XP Earned	XP Remaining	Days in Course	Avg XP/Day
MISSING	MISSING	MISSING	22	MISSING

22 unique school days with test activity (Sep 11, 2025 - Feb 5, 2026).
Only 2 of those days included Science-specific tests (Oct 27, Jan 8).
XP data was not provided for this student.

SECTION 3 · Assessment & Practice Signals

Test Attempts	Last Test Date	Hole-Filling	Accuracy Trend	Fluency
31	2026-02-05	12 (39%)	Declining	Not assessed

Science Testing Detail

- G7 Science ? 80% on Oct 27, 2025
- G7 Science ? 70% on Jan 8, 2026 (10-point DECLINE)

Science = 2 of 31 total tests (6%) ? lowest Science testing rate in the analysis cohort.
Last Science test: Jan 8, 2026 ? over 1 month ago.

Subject Breakdown

Vocabulary (11), Language (6), Writing (6), Reading (4), Science (2), Math (1).
Hole-filling concentrated in Writing (5/6) and Vocabulary (5/11).

SECTION 4 · Learning Velocity & Growth

Growth X	Expected Growth X	Meets 2x Target?	Notes
1.0 (W-to-W)	2.0	NO	Only student not meeting 2x

Winter 2024-25 RIT 233 -> Winter 2025-26 RIT 235 = 2-point gain vs. 2-point projected (1.0x).
Fall-to-Winter Growth X = 6 (Fall 229 -> Winter 235 = 6 pts vs. 1 projected).
Strong recent growth but annualized trajectory is stagnant. Only student who does NOT meet 2x target.

SECTION 5 · MAP Growth Context

MAP Math RIT	MAP Grade Band	Domains Missed	Alignment Risk
MISSING	MISSING	MISSING	Medium

Science RIT: Fall 229 -> Winter 235 (6-point gain). Predicted 239; actual 235 (-4 pts).
Winter RIT 235 is approximately at or slightly above 8th-grade national median.
G7 accuracy decline (80% -> 70%) diverges from MAP growth trend ? possible Physics-specific gaps.

SECTION 6 · Root Cause Analysis

PRIMARY ROOT CAUSE

Insufficient time on task · only 2 Science tests (6%) out of 31 total attempts in 5 months

Secondary Root Cause: Accuracy constraint

G7 accuracy declined from 80% to 70% with 2.5 months between attempts.

Evidence

- 2 Science tests out of 31 total (6%) ? lowest rate in the entire analysis cohort
- Science accuracy DECLINED 80% -> 70% on G7 (Oct -> Jan). No opportunity to practice/improve
- Effective Grades Mastered This Year = 0 despite being in Physics (Chem already complete)
- Winter-to-winter Growth X = 1.0 ? ONLY student not meeting 2x growth target annually
- 39% of all tests are hole-filling; Writing = 5/6 non-effective, displacing Science time
- Predicted RIT 239 vs. actual 235 ? 4-point underperformance

SECTION 7 · Completion Projection

XP Remaining	XP/Day Assumed	Days/Week	Weeks to Finish	Finish Before EOY?
MISSING	25	5	MISSING	MISSING

XP data not provided. Projection cannot be computed.
Qualitative: With 2 Science tests in 5 months, declining accuracy, and 0 grades mastered, finishing remaining MS Science by EOY is unlikely without dramatic frequency increase.

SECTION 8 · Intervention Levers

1. Resume Science testing immediately ? min 2 tests/week (this week).

2 tests in 5 months is the lowest rate in the cohort. She is in Physics (Chem done) ? momentum exists.

2. Targeted G7 Science reteaching before next attempt (within 5 school days).

Accuracy declined 80% -> 70%. Identify specific G7 Physics domains and provide focused instruction.

3. Reduce Writing hole-filling during Science blocks (next 4 weeks).

5/6 Writing tests are non-effective remediation at 83-96% accuracy ? diminishing returns.

4. Set 4-week checkpoint by March 14: pass G7 Science at >=75%.

She was at 80% in October. If she cannot recover, escalate to diagnostic review.

5. Conference with student within 5 school days.

W-to-W Growth X of 1.0 is weakest in cohort. Investigate motivational/scheduling barriers.

Comparison vs. Analysis Cohort

Metric	Savannah	Cohort Range
Campus	Brownsville	Austin (all others)
Science test %	6% (2/31)	6-20%
Accuracy trend	DECLINING	Improving or Flat
W-to-W Growth X	1.0 (NO 2x)	3.0-5.5 (all meet 2x)
Eff. Grades Mastered	0	0-3

HIGHEST RISK

Most at-risk student across both cohorts: only declining Science accuracy, only student not meeting 2x growth, only Brownsville campus

Validation Checklist

- All required sections present
- All tables match specified column headers and order
- Exactly one primary root cause selected
- All computed values traceable to displayed data
- Projection uses fixed assumptions (25 XP/day, 5 days/week)