What to prepare for in January

New York State Regents examinations • January 26–29, 2027

The strongest forecast is the work a student will have to do. The Algebra I final task and the history source routines recur across seasons. The particular story, historical controversy, function family or scientific phenomenon varies.

Finding	January evidence	Instructional decision
Algebra I final task	2/2 January, 3/3 June and 3/3 August forms required a two-variable system.	Rehearse translating constraints. Vary the graph, algebraic solution and interpretation.
Global II cartoons	3.75 labeled sets per January form, compared with 1.80 in June and 2.00 in August.	Use cartoons regularly. Keep maps, text and other evidence in the rotation.
Calendar as a predictor	Across eight earlier January exams, the all-month model beat January-only in seven for MC code presence.	Use all comparable releases as the starting point. Inspect seasonal differences before changing time allocations.
New designs	ELA, Algebra II and new Chemistry have two summer releases each. New Physics has one June release.	Use the blueprint and authentic examples. Each will have its first January in 2027.

Scope of the evidence

The Assessment Atlas indexes 139 forms with 7,241 item or scoring-slot records across 2022–2026. This forecast isolates 74 public forms and 3,738 records that match the 12 examination titles scheduled for January 2027. The 74 include public June forms for restricted legacy Physics.

Pages 2–6 explain the comparisons and their limits. Pages 7–18 give one profile per exam, including a released item and an original practice task. Pages 19–20 translate the findings into a coaching session and explain the reproducible files.

NYSED • Final January 2027 examination schedule

Where a January comparison is possible

Count one regular English public form per subject and administration. The office schedule lists both new and legacy Chemistry and Physics.

Scheduled examination	Jan	June	Aug	Printed slots
Algebra I	2	3	3	280
Geometry	1	2	2	175
Algebra II	0	1	1	72
English Language Arts	0	1	1	52
Global History and Geography II	4	5	5	504
U.S. History and Government	3	4	4	407
Life Science: Biology	1	2	2	235
Earth and Space Sciences	1	2	2	250
Physical Science: Chemistry	0	1	1	98
Physical Science: Physics	0	1	0	50
Physical Setting/Chemistry	4	5	5	1190
Physical Setting/Physics	0	5	0	425

How to read a zero

A zero here means that no public form of the same design entered the corpus for that month. For topic analyses, three early Global II forms lack sufficiently identified key-idea maps. They contribute to booklet and stimulus counts. The remaining topic sample is 3 January, 4 June and 4 August forms.

Algebra I switched in June 2024. Geometry, Biology and Earth and Space Sciences switched in June 2025. Algebra II, ELA, new Chemistry and new Physics began in June 2026. The January 2027 schedule continues both legacy physical sciences. Living Environment and legacy Earth Science are outside this forecast.

NYSED • Implementation dates for the new examinations

Does knowing the month help?

Walk-forward evaluation of multiple-choice content. Each historical January was hidden until predictions from earlier same-design forms had been computed.

Forecast rule	Mean Brier score □	Mean count error □
all months	0.1135	1.078 slots
January only	0.1581	1.272 slots
summer only	0.1186	1.110 slots
shrunk January	0.1133	1.078 slots

The all-month and shrunk estimates were separated by 0.0002 in mean Brier score. That difference is too small, with so few exams, to prefer the more complex rule. The package uses the pooled estimate for planning and displays the month-sensitive alternative.

What the test measured

For each eligible subject and earlier January, predict whether each previously observed multiple-choice code would appear and how many MC slots it would occupy. The probability error is (predicted probability − observed 0 or 1)². The count error is the absolute difference in slots. Average across codes within each form, then give each form equal weight.

Series	Eligible January holdouts	All-month Brier	Jan-only Brier
Algebra I	2026	0.122	0.144
Global History and Geography II	2025, 2026	0.054	0.135
U.S. History and Government	2025, 2026	0.125	0.173
Physical Setting/Chemistry	2024, 2025, 2026	0.143	0.169

Eligibility required at least one prior January, one prior summer form and a prior observation of the code. Unseen codes are outside the score. The eight folds represent four subjects and three calendar Januaries. Results cannot validate models for the other eight subjects, exact contexts, written tasks or stimulus categories.

What student performance can tell us

NYSED technical reports • August 2022, January 2023 and June 2023. Numbers below are historical cohort statistics from operational examinations.

Exam in that era	Jan p	June p	Aug p	Jan alpha / SEM
Algebra I	0.30	0.50	0.29	0.89 / 4.66
Geometry	0.27	0.49	0.30	0.87 / 4.45
Algebra II	0.32	0.50	0.30	0.92 / 5.06
English Language Arts	0.67	0.67	0.47	0.83 / 4.25
Global History and Geography II	0.48	0.72	0.48	0.83 / 3.40
Physical Setting/Chemistry	0.37	0.67	0.44	0.95 / 3.74

Item facility (p) is the fraction correct for selected responses, or the mean share of available credit for constructed responses. The reported mean averages items. In these reports, January and June ELA had the same mean facility; Algebra I differed by 0.20. The pattern changes with course, cohort and form.

Reliability, discrimination and equating

For January 2023 Algebra I, mean item–total correlation was .45, reliability (alpha) was .89 and reported SEM was 4.66. June values were .55, .93 and 5.72. Correlation describes how an item tracked exam performance in that group. Alpha reflects consistency across items; SEM also depends on score dispersion. Higher alpha can coexist with a larger SEM.

Students testing in January, June and August can have different testing histories and levels of preparation. A raw mean comparison cannot isolate test difficulty. NYSED uses psychometric calibration and equating for score comparability. These data do not identify a January effect on an individual student, a Buffalo pass rate or a future cut score.

The CSV includes 20 form summaries across eight series, with report and table identifiers. The historical Algebra, Geometry and ELA metrics describe earlier designs. No new IRT parameters, differential item functioning statistics or student-level forecasts were estimated.

NYSED / Pearson • 2023 Algebra I technical report, Chapters 2–4 and Appendices D/E

NYSED / Pearson • 2023 Global II technical report, same tables

Where the raw credits go

Eight Next Generation Algebra I forms • June 2024 through August 2026

Category	Blueprint	January mean	June mean	August mean
Algebra	48–61%	53.7%	52.8%	56.1%
Functions	24–32%	28.0%	27.6%	26.8%
Statistics / probability	7–15%	11.0%	12.2%	9.8%
Number / quantity	4–10%	7.3%	7.3%	7.3%

The January means came from two 82-credit forms. The January algebra share differs from June by less than one percentage point. Functions, algebra and statistical reasoning belong in each week of a retester cycle.

How Q35 changed within the same family

Released forms	Required work
June + Aug 2024; Jan + Aug 2026	Set up equations, test a proposed pair of prices and solve algebraically.
Jan 2025; June 2026	Set up equations, graph both and interpret the intersection.
June 2025	Model limits with inequalities, graph a feasible region and justify a feasible pair.
Aug 2025	Solve the system algebraically and apply an additional spending constraint.

What “65” meant on these eight forms

The minimum raw score reaching scale 65 was 29 in January 2025 and 28 in January 2026. All three June forms used 29. August used 28, 29 and 29. Use each released form’s chart for that administration. A fixed raw target cannot substitute for the January 2027 chart.

NYSED • Algebra I educator guide, test blueprint by credits

NYSED • January 2026 Algebra I conversion chart

Which historical sources recur?

From the printed introductions to all 700 multiple-choice slots on 25 Global II and U.S. History forms. Each stimulus set counts once, including sets that serve two or more items.

Source family	January	June	August
Global II · printed text	9.75 (4/4)	9.20 (5/5)	9.20 (5/5)
Global II · cartoon	3.75 (4/4)	1.80 (5/5)	2.00 (5/5)
Global II · map	1.25 (3/4)	1.40 (4/5)	0.60 (2/5)
Global II · photo	0.50 (2/4)	0.20 (1/5)	0.60 (3/5)
U.S. History · printed text	10.33 (3/3)	9.00 (4/4)	10.00 (4/4)
U.S. History · cartoon	2.33 (3/3)	2.75 (4/4)	1.75 (3/4)
U.S. History · map	1.00 (3/3)	0.75 (2/4)	1.25 (2/4)
U.S. History · photo	1.33 (3/3)	1.75 (3/4)	0.25 (1/4)

Each cell gives mean labeled sets per form followed by the number of forms with at least one. Multi-source sets can have two labels. A set labeled simply “document” stays unspecified. A passage that happens to mention a map contributes to printed text.

A seasonal difference worth testing in instruction

Relative to each January’s immediately preceding June/August average, Global II had 0, 0.5, 4 and 3.5 more cartoon sets in the four cycles. The mean difference was +2.0. Three non-tied cycles all favored January; an exploratory two-sided sign test gives p = .25. This contrast emerged from examining several features, so it offers a practice hypothesis.

A practical choice for Global II is to pair a cartoon with a different source, then ask students to interpret both in context. For U.S. History, use one photo and one text about the same dispute and change the question from identifying an event to evaluating what each source can establish.

NYSED • January 2026 Global II booklet, first cartoon-based set

Algebra I

Wed Jan 27 · 1:15 p.m. • NYSED scheduled start time

Test design

24 multiple-choice questions and 11 written responses contribute 48 and 34 of 82 raw credits. The blueprint assigns 48–61% of credits to algebra, 24–32% to functions, 7–15% to statistics and probability, and 4–10% to number and quantity.

What repeated across released forms

Every current Q35 asked for a two-variable system. Seven used equations and one used inequalities. Three required a graph. Four asked students to check someone's proposed prices and solve algebraically. In January 2025 students graphed and interpreted an intersection. In January 2026 they checked a claim and solved.

MC slots per form · selected recurring codes	Jan	June	Aug
Function notation and evaluation (F-IF.A)	2.5	3.67	2.33
Solve one-variable equations and inequalities (A-REI.B)	2	2.33	2
Properties of rational and irrational numbers (N-RN.B)	1.5	1.67	1.33

Only two comparable January forms. A systems-only review leaves 76 of 82 possible credits outside that single six-credit task. Rotate function interpretation, equations, statistics and number skills through the same week.

Practice task for transfer

A school cart sells coffee and tea. On Monday, 3 coffees and 2 teas cost $12. On Tuesday, 2 coffees and 4 teas cost $16. Model both days. Someone claims both drinks cost $2.50. Check the claim, find the prices and explain one coordinate of the intersection.

Evidence to look for

Look for consistent variable definitions, two distinct constraints and a check against the receipts. Coffee costs $2 and tea costs $3. For re-entry, start with one receipt, then supply the second. Next time, change an equality into a spending limit.

Open the released example • ALG1 2026 01 35
Open the official guide, directions or schedule

Geometry

Thu Jan 28 · 1:15 p.m. • NYSED scheduled start time

Test design

35 questions and 80 raw credits. Congruence accounts for 27–34% of credits and similarity/right triangles/trigonometry for 29–37%. Coordinate geometry contributes 12–18%; modeling 8–15%; circles and measurement each 2–8%.

What repeated across released forms

All five current final problems required proof. The first two used a geometric diagram. The three 2026 forms used coordinates. January required proving a trapezoid, then establishing parallelism and checking a length relationship.

MC slots per form · selected recurring codes	Jan	June	Aug
Prove geometric theorems (G-CO.C)	4	4.5	4
Right-triangle trigonometry (G-SRT.C)	2	3	2.5
Transformations in the plane (G-CO.A)	2	2	2

One comparable January. Coordinate proof deserves rehearsal, along with a diagram-only route. The five problems cannot fix the theorem, figure or location of a future proof.

Practice task for transfer

Give vertices (0,0), (4,0), (6,3), (2,3). Ask students to prove the figure is a parallelogram and use a second calculation to decide whether it is a rectangle. Then remove the grid and supply the parallel sides as givens.

Evidence to look for

Require each calculation to warrant a geometric conclusion. The opposite sides have equal slopes, and the adjacent sides are not perpendicular. A drawing helps the student choose a claim; the mathematical argument establishes it.

Open the released example • GEO 2026 01 35
Open the official guide, directions or schedule

Algebra II

Fri Jan 29 · 9:15 a.m. • NYSED scheduled start time

Test design

36 questions and 82 credits. Parts I–IV contribute 48, 16, 12 and 6. Functions occupy 38–45% of credits, algebra 30–39%, statistics/probability 14–22%, and number/quantity 4–8%.

What repeated across released forms

June and August 2026 had exactly the same broad distribution of credits. Each final task used an applied function, asked for average rate of change with interpretation and included a threshold. The models differed: lung capacity was periodic; tea temperature decayed exponentially.

MC slots per form · selected recurring codes	Jan	June	Aug
Transform or combine familiar functions (F-BF.B)	—	4	1
Rational exponents (N-RN.A)	—	2	1
Connect zeros and factors (A-APR.B)	—	1	1

January 2027 is the first January under this design. Two repeated response demands warrant practice; they provide little information about the next specific function family.

Practice task for transfer

Give two measurements from a cooling model, 92°C at minute 0 and 67°C at minute 5. Ask for the average rate, its units and what it says about the whole interval. Then ask whether those two points determine the instantaneous rate at minute 3.

Evidence to look for

The mean rate is −5°C/min. A complete interpretation describes the average decrease over five minutes. Two endpoint values alone cannot establish the instantaneous rate. Repeat with a periodic model to test transfer.

Open the released example • ALG2 2026 08 36
Open the official guide, directions or schedule

English Language Arts

Tue Jan 26 · 9:15 a.m. • NYSED scheduled start time

Test design

Three reading passages support 24 selected responses. Part 2 uses four sources for an argument. Part 3 asks for a text-based analysis. In the 2026 maps, the argument earns up to 6 × 4 weighted credits and the analysis earns 4 × 2. Reading contributes 24 of 56 weighted credits.

What repeated across released forms

The two current reading maps assign six questions each to R.4. R.3 accounts for six in June and seven in August; R.2 for five and four. The two argument issues were horse racing and invasive species. Both require a claim, engagement with another position and evidence from at least three sources.

MC slots per form · selected recurring codes	Jan	June	Aug
Development and interaction of ideas, people or events (R.3 (11-12))	—	6	7
Word choice, meaning and tone (R.4 (11-12))	—	6	6
Central ideas and themes (R.2 (11-12))	—	5	4

January 2026 used the prior standards. Its debate about employer screening of social media offers a historical task comparison. Its reading codes and content are outside the current probability model.

Practice task for transfer

Give a brief account of a decision written first as a flashback and then in chronological order. Ask students what the reader learns earlier in each version, which detail changes meaning and how the structure develops a central idea.

Evidence to look for

A response should connect the placement of a particular detail to its effect on the reader and to a defensible central idea. For argument, rehearse a different transfer: integrate a third source that qualifies the claim.

Open the released example • ELA 2026 08 Part 2

Open the official guide, directions or schedule

Global History and Geography II

Thu Jan 28 · 9:15 a.m. • NYSED scheduled start time

Test design

Part I contains 28 stimulus-based selected responses. Part II uses paired sources for short responses about context, sourcing and relationships. In Part III students choose an enduring issue and support an argument using at least three of five documents and relevant outside information.

What repeated across released forms

Cartoons appeared on 4/4 January, 5/5 June and 5/5 August forms. Mean cartoon sets per form were 3.75, 1.80 and 2.00. The four January counts were 1, 3, 6 and 5. Decolonization and nationalism (10.7) averaged 4.00, 2.25 and 3.00 MC slots on the smaller topic-mapped sample.

MC slots per form · selected recurring codes	Jan	June	Aug
Enlightenment, revolution and nationalism (10.2)	4	3.75	3.75
World wars and their effects (10.5)	4	3.75	3
Cold War tensions (10.6)	3.33	3.25	3

All 14 booklets support stimulus counts. Only 11 have a topic map in the Atlas. A set can serve several questions. The cartoon count increase is exploratory and varies strongly by year.

Practice task for transfer

Pair a political cartoon about imperial rule with an excerpt from an independence leader. Ask which feature conveys the cartoonist's point of view, which detail in the second source complicates it, and how the relationship changes across time.

Evidence to look for

Look for symbol claim historical context. In an enduring-issues rehearsal, ask students to explain a change in the impact of the issue across three documents and bring in one relevant outside fact.

Open the released example • GLOBAL2 2026 01 4

Open the official guide, directions or schedule

U.S. History and Government

Wed Jan 27 · 9:15 a.m. • NYSED scheduled start time

Test design

28 stimulus-based selected responses, two paired-document short essays, six document scaffold questions and one civic literacy essay. The extended civic essay has a five-point rubric weighted three times. The two short essays carry five points each.

What repeated across released forms

The January civic issues were Black voting rights (2024), Treaty of Versailles ratification (2025) and Prohibition (2026). January Part I included a photo on 3/3 forms, June on 3/4, August on 1/4. Constitutional foundations appeared across all months.

MC slots per form · selected recurring codes	Jan	June	Aug
Constitutional foundations (11.2)	2.67	4	5.5
Rise of American power (11.6)	3	3.75	2
Expansion, nationalism and sectionalism (11.3)	3.33	3	3.25

Three Januaries span different historical periods and kinds of civic conflict. A rotation rule would mistake 11 distinct essay labels for a predictable sequence.

Practice task for transfer

Give one law and one editorial reacting to it. Students date both sources, explain the public problem, identify one effort to address it and evaluate its effect using a document detail. Change the audience of the editorial and revisit its usefulness.

Evidence to look for

For short essay 2, look for a link from audience, purpose, bias or point of view to reliability for the specific historical use. For the civic essay, look for an explained action and evidence of impact or success.

Open the released example • USHG 2026 01 37

Open the official guide, directions or schedule

Life Science: Biology

Fri Jan 29 · 9:15 a.m. • NYSED scheduled start time

Test design

The guide specifies 9–11 phenomenon clusters with 45–55 one-credit questions, roughly 60% selected response. Current ranges include ecosystems and inheritance at 14–27% each, natural selection/evolution at 14–24%, and structure/function at 9–20%.

What repeated across released forms

January 2026 moved through twins, an invasive aquatic plant, pest management and honeybees. Seven of ten clusters contained the word model or models. June averaged seven model-cued clusters; August averaged 7.5. Graph cues varied more across these small groups.

MC slots per form · selected recurring codes	Jan	June	Aug
Natural selection and evolution (HS-LS4-2)	3	2	1.5
Ecosystem stability and change (HS-LS2-6)	1	1.5	1.5
Sources of inherited variation (HS-LS3-2)	1	1.5	1.5

One January and five total forms. Two June 2026 items received universal credit and are excluded from topic occurrence counts. They remain visible as printed records. Cluster word cues include directions and questions.

Practice task for transfer

Show two generations of an insect population before and after an environmental change. Ask for a prediction about a trait frequency, a numerical comparison and a mechanism connecting the comparison to differential reproduction.

Evidence to look for

Look for changes in populations across generations, a cited numerical trend and a defensible mechanism. Replace the organism and graph orientation on the second attempt.

Open the released example • BIO 2026 01 1

Open the official guide, directions or schedule

Earth and Space Sciences

Tue Jan 26 · 1:15 p.m. • NYSED scheduled start time

Test design

The exam organizes phenomena into multi-question clusters. The blueprint gives 20–31% each to space systems, Earth's systems and human sustainability; 11–20% each to Earth history and weather/climate; and 3–9% to engineering.

What repeated across released forms

All five released forms contained 50 slots. January 2026 included a drifting cargo spill, glacial ice and Mount Morris Dam. Ten January clusters included a model word cue, six a graph cue and five a map cue. The June mean graph count was 5.5; August was 7.

MC slots per form · selected recurring codes	Jan	June	Aug
Surface processes across scales (HS-ESS2-1)	1	4	2.5
Resources, hazards, climate and human activity (HS-ESS3-1)	3	3	2
Evidence about the early universe (HS-ESS1-2)	2	2	2

One January. A named New York location is a useful practice setting, with little basis for predicting which place will anchor the exam. Distinguish information in a reference table from information in a supplied map.

Practice task for transfer

Pair an elevation map with discharge measurements above and below a dam. Ask which neighborhood faces greater flooding under specified conditions, then require a map observation and a numerical observation to justify the answer.

Evidence to look for

Look for position and scale on the map, units in the data and a mechanism linking elevation or flow to the prediction. Give an absent learner a one-page copy of the phenomenon and both data displays.

Open the released example • ESS 2026 01 38
Open the official guide, directions or schedule

Physical Science: Chemistry

Tue Jan 26 · 1:15 p.m. • NYSED scheduled start time

Test design

The current NYSP12SLS blueprint gives chemical reactions 36–46%, structures/properties 30–40%, energy 10–14%, waves 5–7%, matter/energy in organisms 2–5% and engineering 5–11%. Questions are grouped around phenomena.

What repeated across released forms

The two available forms had 11 clusters each. June contexts included beverages, blood equilibria and fabric. August included semiconductors, pool water and catalytic converters. Practice relating a macroscopic observation to a particle model and a data trend.

MC slots per form · selected recurring codes	Jan	June	Aug
Acids and bases (HS-PS1-11)	—	4	1
Bulk properties and interparticle forces (HS-PS1-3)	—	3	1
Structure and function of materials (HS-PS2-6)	—	3	1

First January for the new exam. The 14 legacy chemistry forms measure a different design; older reference-table frequency cannot estimate the new cluster mix.

Practice task for transfer

Provide a before-and-after particle diagram of a reaction and a table of three temperature readings. Ask which observation supports an energy-transfer claim and which feature of the diagram supports conservation of atoms.

Evidence to look for

Require the student to state the system boundary, read the direction of the temperature change and count atoms by type. A claim about rate requires rate evidence.

Open the released example • CHEM NEW 2026 08 30

Open the official guide, directions or schedule

Physical Science: Physics

Wed Jan 27 · 1:15 p.m. • NYSED scheduled start time

Test design

The NYSP12SLS blueprint gives 26–38% each to energy and waves/electromagnetic radiation, 20–32% to forces/interactions and 5–11% to engineering. Clusters can combine measurement, models and written reasoning.

What repeated across released forms

The single public form included pendulum motion, heat exchange, helmet design, cell-phone optics and voice recognition. It had ten clusters, 31 selected responses and 19 constructed responses. Nine clusters contained an explicit diagram cue.

MC slots per form · selected recurring codes	Jan	June	Aug
Wave speed, frequency and wavelength (HS-PS4-1)	—	5	—
Force, mass and acceleration (HS-PS2-1)	—	4	—
Gravitational and electrostatic forces (HS-PS2-4)	—	3	—

Only June 2026 is available in the corpus. The August schedule supplied no same-design form. January will be the first winter test, so all month comparisons are unestimated.

Practice task for transfer

Compare two measured impact-force curves with equal areas but different peak heights. Ask which design reduces peak force, what the area represents, and what assumption connects this evidence to a helmet comparison.

Evidence to look for

Look for a distinction between force and impulse, attention to units, and a stated condition such as comparable change in momentum. Require students to refer to both the height and width of the curves.

Open the released example • PHYS NEW 2026 06 15
Open the official guide, directions or schedule

Physical Setting/Chemistry

Tue Jan 26 · 1:15 p.m. • NYSED scheduled start time

Test design

The legacy blueprint is a separate January option. The 14 public forms each have 85 scoring slots, with 50 selected responses and 35 constructed-response slots. Multiple official mappings can attach to the same slot.

What repeated across released forms

MC slots explicitly mapped to the 2011 reference tables averaged 20.5 in January, 22.4 in June and 19.8 in August. In January 2026, students worked with a gas sample, a cooling investigation, electrochemistry and neutralization in written-response sets.

MC slots per form · selected recurring codes	Jan	June	Aug
Standard 4 / Key Idea 3	37	36.2	39.2
Reference Tables / 2011 Edition	20.5	22.4	19.8
Standard 1 / Science Inquiry Key Idea 3	12.5	10.2	11

The reference-table tag can accompany a content or process tag. Adding percentages across these tags double counts items. The new chemistry exam uses a different reference resource.

Practice task for transfer

Give two substances and selected entries from the relevant tables. Ask for a prediction about a physical property, a numerical comparison and a particle-level explanation. Follow with an equation or diagram that represents the same relationship.

Evidence to look for

Look for the right table, correct units and a stated comparison. A copied table value alone seldom explains the relationship. Change the substance on the second attempt.

Open the released example • CHEM LEG 2026 01 76

Open the official guide, directions or schedule

Physical Setting/Physics

Wed Jan 27 · 1:15 p.m. · restricted • NYSED scheduled start time

Test design

NYSED marks the January 2027 legacy Physics form restricted. The available historical public booklets here are June forms. They provide examples of the legacy response formats and reference-table use.

What repeated across released forms

The five public June forms each have 85 scoring slots. June 2026 includes a spring graph, point charges, photon emission, a roller-coaster energy situation, a circuit and a light ray crossing an interface. Several numbered slots share one underlying prompt.

MC slots per form · selected recurring codes	Jan	June	Aug
Standard 4 / 5.1	—	23	—
Standard 1 / Math Key Idea 1	—	16.2	—
Standard 4 / 4.1	—	11.4	—

No public January or August form in this series in the five-year window. The engine supplies June descriptions and abstains from a seasonal estimate. A restricted administration is never treated as a zero.

Practice task for transfer

Practice interpreting the slope of a force–elongation graph, predicting the effect of a circuit change and explaining an energy conversion. Have students label a diagram and choose an equation before substituting numbers.

Evidence to look for

Look for selection of quantities, consistent units, vector direction when relevant and a final statement of physical meaning. Retain the legacy reference tables for rehearsals on this route.

Open the released example • PHYS LEG 2026 06 72

Open the official guide, directions or schedule

A 25-minute department conversation

A worked example for Burgard's Algebra I retester group. Use the same sequence with the released item linked on any department profile.

Time	Teacher and coach moves	Artifact or decision
0–4 min	Read the January 2025 and 2026 Q35 tasks. Name the common intellectual work and circle the demand that changed.	One sentence identifying the transfer skill.
4–9 min	Solve the coffee-cart task on page 7. Choose one valid representation and explain how a student could check it against the receipts.	Two constraints and one check in context.
9–15 min	Compare an algebraic response, a graph and a partial model. Identify what each would let a teacher infer. Consult the released task's own rubric for scoring that task.	One piece of evidence worth collecting next lesson.
15–21 min	Change the task to a maximum budget or minimum order. Give a student returning after an absence the context, units and one worked representation.	A second task preserving the reasoning but changing the route.
21–25 min	Choose one exit question. Ask students to explain why their solution fits both conditions. Decide how the next lesson will respond to a one-condition answer.	A teacher-selected adjustment and a date to revisit work.

A short preparation cycle for older retesters

Use two brief independent attempts on different days. First collect evidence of model setup, computation and interpretation. In the next class, ask for the same reasoning in a new representation. If a student can solve supplied equations but cannot create them, spend the next opening comparing the quantities and constraints. If setup is sound, practice the missing representation or explanation.

The workspace vocabulary playbook supplies a reusable reading routine. Identify the task action, target, source of evidence and constraints. For Algebra I, "at least," "algebraically" and "in context" change the work a response must show. Use a paper re-entry copy so intermittent attendance does not break the sequence.

Reading and rerunning the engine

The full ZIP contains the exact analysis inputs, 665 feature comparisons, 77 inherited blueprint entries, source locators, model output and a standard-library Python runner.

What a probability means

The event is at least one occurrence on a same-design form. The pooled rule is (forms with feature + 1) / (eligible forms + 2). The alternative uses four pseudo-forms centered on the smoothed June/August rate plus the observed January hits. These are planning estimates. A literal “8 of 8” has a pooled estimate of 90% and a nominal Wilson 95% prevalence interval of about 68%–100%. Purpose-built tests violate simple random-form assumptions.

The engine reports a numeric planning estimate only with at least two January, two June and two August forms. That threshold is an editorial display rule. The 466 other comparisons are descriptive. Scope differs by feature. Raw-credit shares apply only to math; code occurrence, slot counts and stimulus-set counts use different denominators.

What was checked

The engine preserves all 3,738 printed records. It excludes the two universally credited June Biology items from code frequencies and excludes 108 unmapped Global II records from topic denominators. The August 2026 ELA correction replaced the answer key; it did not identify an invalid content item. Writing-standard bundles stay out of ELA MC frequency estimates.

The source register distinguishes downloaded files from web-verified guidance and inherited mappings. The 122 Atlas task annotations are source-supported instructional drafts. The printed stimulus descriptions, science cluster boundaries and final math tasks have separate records linked to the source pages. Word cues do not establish that a visual was present or that it was the target of an item.

Where to start

Open the HTML explorer and choose a course, then switch between content, written work, final tasks and stimuli. Select a row to inspect its form counts and source links. For recalculation, run engine/forecast.py with --data data --out a new directory. Use --as-of YYYY-MM to exclude later administrations. The README explains how to add a released form and preserve the original snapshot.

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