NOVEMBER 2026 / JANUARY 2027 PLANNING

Physical Setting/Physics atlas

Standards, score design, seasonal evidence, public stimuli, scored work and original transfer tasks.

Wed Jan 27 · 1:15 p.m. · restricted | Official January 2027 schedule

January forms	June forms	August forms	Printed slots
0	5	0	425

What the available design supports

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.

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.

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.

NYSED course guide / administration authority

A useful preparation decision

Select a recurring evidence demand, compare the official scoring criterion with a response, then change context for an independent check. The six new topic cards below broaden practice. Their contexts are original designs, and their exact future appearance has no estimated probability.

Topic	Original card
Mechanical energy	PHYS_LEG-N01 A spring with two energy routes
Electrical energy	PHYS_LEG-N02 A circuit with a carried result
Wave behavior	PHYS_LEG-N03 A ray measured from which line?
Motion and forces	PHYS_LEG-N04 The vector survives the calculation
Modern physics	PHYS_LEG-N05 A photon between two levels
Fields and interactions	PHYS_LEG-N06 The charge-distance comparison

Blueprint and score contribution

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. The source corpus describes printed slots. It does not create an updated blueprint or a January seasonal estimate for restricted material.

Preserve the scoring interpretation

A local response criterion supports feedback about that task. A shortened exam or modified full-length assembly lacks the state form's validated conversion. Report separate evidence for independent and prompted work. Preserve item weights when describing coverage.

Code ledger and form prevalence

Each row reports forms with at least one valid matching slot. A count such as 1/2 is a form prevalence, not student accuracy. Codes are retained at their actual mapping granularity. ELA writing tasks carry broad mappings and are excluded from this frequency ledger.

Published code / label	Jan	June	Aug	All
Standard 1 / Math Key Idea 1	0/0	5/5	0/0	5/5
Standard 1 / Math Key Idea 2	0/0	5/5	0/0	5/5
Standard 1 / Math Key Idea 3	0/0	5/5	0/0	5/5
Standard 1 / Science Inquiry Key Idea 1	0/0	2/5	0/0	2/5
Standard 1 / Science Inquiry Key Idea 2	0/0	1/5	0/0	1/5
Standard 1 / Science Inquiry Key Idea 3	0/0	3/5	0/0	3/5
Standard 4 / 4.1	0/0	5/5	0/0	5/5
Standard 4 / 4.3	0/0	5/5	0/0	5/5
Standard 4 / 5.1	0/0	5/5	0/0	5/5
Standard 4 / 5.3	0/0	5/5	0/0	5/5
Standard 4 Process Skills / 4.1	0/0	5/5	0/0	5/5
Standard 4 Process Skills / 4.3	0/0	5/5	0/0	5/5
Standard 4 Process Skills / 5.1	0/0	5/5	0/0	5/5
Standard 4 Process Skills / 5.3	0/0	4/5	0/0	4/5
Standard 6 / Key Idea 1	0/0	2/5	0/0	2/5
Standard 6 / Key Idea 2	0/0	4/5	0/0	4/5
Standard 6 / Key Idea 3	0/0	4/5	0/0	4/5
Standard 6 / Key Idea 4	0/0	2/5	0/0	2/5
Standard 6 / Key Idea 5	0/0	2/5	0/0	2/5
Standard 6 / Key Idea 6	0/0	1/5	0/0	1/5

Zero observed January forms provide no winter rate. Multiple codes can describe the same slot. Labels are short teaching descriptions, and official code wording and its boundary remain authoritative.

Topics, trend and stimulus hypotheses

Mechanical energy

Standard 4 / 4.1
January 0/0 | June 5/5 | August 0/0

Pooled planning probability 85.7% for a union of named codes in 5/5 forms. Nominal observed-prevalence interval 57%-100%. Union of named official codes on valid printed scoring slots in fully mapped target forms.

Design hypothesis constructed spring data using spring launcher. Preserve the target relationship and change the setting.

Electrical energy

Standard 4 / 4.1
January 0/0 | June 5/5 | August 0/0

Pooled planning probability 85.7% for a union of named codes in 5/5 forms. Nominal observed-prevalence interval 57%-100%. Union of named official codes on valid printed scoring slots in fully mapped target forms.

Design hypothesis constructed series circuit using series-parallel circuit. Preserve the target relationship and change the setting.

Wave behavior

Standard 4 / 4.3
January 0/0 | June 5/5 | August 0/0

Pooled planning probability 85.7% for a union of named codes in 5/5 forms. Nominal observed-prevalence interval 57%-100%. Union of named official codes on valid printed scoring slots in fully mapped target forms.

Design hypothesis constructed refraction model using lens ray diagram. Preserve the target relationship and change the setting.

Motion and forces

Standard 4 / 5.1
January 0/0 | June 5/5 | August 0/0

Pooled planning probability 85.7% for a union of named codes in 5/5 forms. Nominal observed-prevalence interval 57%-100%. Union of named official codes on valid printed scoring slots in fully mapped target forms.

Design hypothesis constructed momentum using collision model. Preserve the target relationship and change the setting.

Modern physics

Standard 4 / 5.3
January 0/0 | June 5/5 | August 0/0

Pooled planning probability 85.7% for a union of named codes in 5/5 forms. Nominal observed-prevalence interval 57%-100%. Union of named official codes on valid printed scoring slots in fully mapped target forms.

Design hypothesis constructed energy-level model using photoelectric threshold. Preserve the target relationship and change the setting.

Fields and interactions

Standard 4 / 5.1
January 0/0 | June 5/5 | August 0/0

Pooled planning probability 85.7% for a union of named codes in 5/5 forms. Nominal observed-prevalence interval 57%-100%. Union of named official codes on valid printed scoring slots in fully mapped target forms.

Design hypothesis constructed electrostatic model using field-line diagram. Preserve the target relationship and change the setting.

The contexts are possible practice stimuli. Their probabilities are unestimated. The quantitative estimates apply only to the named mapped-code event. Rows overlap and are not additive.

Observed public stimuli by topic

This route has item-level codes and public questions, with no inherited cluster-format catalog. Use the linked exemplars on the next page.

A source-set overlap with a code is broader than a one-to-one match between the format and the entire expectation. The full CSV retains all observed sets and joins.

Released item exemplars and mappings

Mechanical energy / PHYS_LEG-N01

Practice evidence E=(1/2)kx²=1.0 J.

PHYS_LEG_2026_06_76 public question

Official published mapping

Verification route Atlas source-linked mapping

Electrical energy / PHYS_LEG-N02

Practice evidence R=6 ohms, I=2 A, P=24 W.

PHYS_LEG_2026_06_76 public question

Official published mapping

Verification route Atlas source-linked mapping

Wave behavior / PHYS_LEG-N03

Practice evidence sin(theta2)=sin(30)/1.50=1/3, so theta2 is about 19 degrees.

PHYS_LEG_2026_06_81 public question

Official published mapping

Verification route Atlas source-linked mapping

Motion and forces / PHYS_LEG-N04

Practice evidence p_i=6 and p_f=-2 kg m/s; delta p=-8 kg m/s.

PHYS_LEG_2026_06_85 public question

Official published mapping

Verification route Atlas source-linked mapping

Modern physics / PHYS_LEG-N05

Practice evidence The released energy is 3.0 eV=4.80e-19 J.

PHYS_LEG_2026_06_65 public question

Official published mapping

Verification route Atlas source-linked mapping

Fields and interactions / PHYS_LEG-N06

Practice evidence The force becomes one quarter of the original magnitude.

PHYS_LEG_2026_06_85 public question

Official published mapping

Verification route Atlas source-linked mapping

The connection is a shared published code. Compare the complete tasks before treating them as equivalent practice.

Recognize equivalent energy methods

PHYS_LEG_2026_06 Q55 | Published result 1 credit criterion

Observed evidence

The guide illustrates spring energy using an elastic-energy equation or triangular area. Q55 and Q56 have a linked rule for errors in units.

Possible interpretation

A student using the force-distance graph may understand the physics even when their notation differs from the equation exemplar.

Diagnostic prompt

What quantity does the area represent? How do N·m and joules relate?

Teaching move

Work both routes with the same numbers, label the units, then identify where the routes give the same energy.

Public task

Sample or criterion

Commentary

Official mapping

This is a selected released example or criterion. Local student work was not supplied. Preserve alternate explanations until a new response distinguishes them.

Trace a carried-forward circuit result

PHYS_LEG_2026_06 Q73 | Published result 1 credit criterion

Observed evidence

The guide permits a calculation consistent with the prior equivalent resistance. Q73 and Q74 limit repeated penalties for unit errors.

Possible interpretation

Several incorrect numerical answers may arise from one earlier resistance error.

Diagnostic prompt

Using your own resistance, show how you would calculate current. What changes if the resistance value is supplied?

Teaching move

Provide the upstream value on a second try. Track circuit structure separately from the downstream calculation.

Public task

Sample or criterion

Commentary

Official mapping

This is a selected released example or criterion. Local student work was not supplied. Preserve alternate explanations until a new response distinguishes them.

Measure refraction from the normal

PHYS_LEG_2026_06 Q79 | Published result 1 credit criterion

Observed evidence

The guide accepts a refracted ray within two degrees of 27° from the normal.

Possible interpretation

A drawing error may come from measuring against the surface, or from placing the protractor inaccurately.

Diagnostic prompt

Mark zero on the protractor where it meets the normal. Which line is the reference for this angle?

Teaching move

Draw the normal first and label the two possible reference lines. Recheck the ray on a rotated surface.

Public task

Sample or criterion

Commentary

Official mapping

This is a selected released example or criterion. Local student work was not supplied. Preserve alternate explanations until a new response distinguishes them.

Six original contexts and the prep route

Card	Target relationship	Transfer condition
PHYS_LEG-N01 A spring with two energy routes	Calculate elastic potential energy using k and extension.	Double the extension and compare force and stored energy factors.
PHYS_LEG-N02 A circuit with a carried result	Find the correct resistance, current and total power.	Change the circuit to parallel and recalculate the equivalent resistance before judging the work.
PHYS_LEG-N03 A ray measured from which line?	Find the refracted angle to the nearest degree.	Reverse the path and explain how the reciprocal geometry supports the original result.
PHYS_LEG-N04 The vector survives the calculation	Calculate the change in momentum.	Keep both velocities eastward and compare the result.
PHYS_LEG-N05 A photon between two levels	Find the photon energy in eV and joules.	Reverse the transition and state the required absorption energy.
PHYS_LEG-N06 The charge-distance comparison	Compare force magnitudes.	Double one charge at the same time as distance and compare the new force to the original.

Retained three-week Studio sequence

Week 1 session 1 Get the slope and the area

Week 1 session 2 Compare net and individual forces

Week 2 session 3 Use a parallel-circuit check

Week 2 session 4 Follow light at a boundary

Week 3 session 5 Translate an energy-level change

Week 3 session 6 Link graph, work and speed

The practice folder contains the prior standalone original exam, Form B rehearsal insert and directions, exam guide, six-session student prep and worked responses. Separate new stimulus student and teacher books add these six contexts. Use the full-length public booklet links in the assembly map.

Connections and department decisions

PHYS_LEG-N01 A spring with two energy routes

Treating a variable force as constant at its final value. This is a diagnostic hypothesis. Ask the learner to explain the step before selecting a response.

Related reasoning ALG1-N02 Raised garden arch, GEO-N06 Which transformations undo each other?

PHYS_LEG-N02 A circuit with a carried result

Penalizing every later use of one error without reading the task-specific scoring criteria. This is a diagnostic hypothesis. Ask the learner to explain the step before selecting a response.

Related reasoning ALG1-N05 Labels on an exponential model, BIO-N03 Where does the dry mass come from?

PHYS_LEG-N03 A ray measured from which line?

Substituting an angle to the surface as though it were to the normal. This is a diagnostic hypothesis. Ask the learner to explain the step before selecting a response.

Related reasoning ALG1-N02 Raised garden arch, GEO-N06 Which transformations undo each other?

PHYS_LEG-N04 The vector survives the calculation

Dropping signs when motion reverses. This is a diagnostic hypothesis. Ask the learner to explain the step before selecting a response.

Related reasoning ALG1-N02 Raised garden arch, GEO-N06 Which transformations undo each other?

PHYS_LEG-N05 A photon between two levels

Using the final level energy alone as the photon energy. This is a diagnostic hypothesis. Ask the learner to explain the step before selecting a response.

Related reasoning ALG1-N05 Labels on an exponential model, BIO-N03 Where does the dry mass come from?

PHYS_LEG-N06 The charge-distance comparison

Applying inverse distance instead of inverse-square distance. This is a diagnostic hypothesis. Ask the learner to explain the step before selecting a response.

Related reasoning ALG1-N04 Same center, different repair times, ALG1-N06 Measuring foam panels

Use the anonymous calibration record to preserve the initial judgments, criterion evidence, an instructional move and a new independent response. Review the same reasoning in a changed context and record prior exposure.