Are your students ready for the next-generation assessments?

Are you?

Pearson has you covered.

New Common Core Assessments are expected to assess students’ college and career readiness. Students will be tested on their:

• Ability to problem solve, reason abstractly, and construct mathematical models;
• Conceptual understanding of important mathematical concepts;
• Procedural fluency of benchmark math skills.

These new assessments will also include technology-enhanced and technology-enabled items, so students need to be familiar with using digital devices, such as computers or tablets.
Prepare students for next-generation assessments

*Pearson High School Mathematics Common Core* helps students develop problem-solving and reasoning abilities to successfully solve complex, multi-part performance tasks.

**Reasoning, Modeling, and Justification**

Extended Constructed Response (ECR) items provide students with opportunities to refine their reasoning, modeling, and justification abilities in order to be successful on the next-generation assessments. In this sample extended response task, students defend their decisions and justify their models in writing, just like on the new assessments.

**Teacher Support for Weekly Common Core Standards Practice**

**TEACHING NOTES**

**Extended Response**

3. Jesse and Lisa start a business tutoring students in math. They rent an office for $200 per month and charge $15 per hour per student. In a month, assuming that there are four weeks in a month, this will help students answer many questions. All the hours that they calculate the profit. For part (b), students may need help in determining the scale of the axes. Ask what value makes sense for the least and greatest on the x-axis (−200 and more than $100). For the y-axis, ask similar questions (0% or less than 20%)

b. Graph the equation from part (a) and explain what it models.

**Sample Extended Response Question from Algebra 1**

**Common Core Standards Practice and Review**

**Performance Task: Choosing a Movie-Rental Plan**

Complete this performance task in the space provided. Fully answer all parts of the performance task with detailed responses. You should provide sound mathematical reasoning to support your work.

You are considering three different ways to rent movies.

**Plan A**: Rent DVDs from a kiosk in a nearby grocery store for $1.50 each.

**Plan B**: Stream unlimited movies to your computer or TV for $10 per month. The selection of movies is limited.

**Plan C**: Rent DVDs by mail for a $5 monthly fee plus $2 per movie. The selection of movies is not limited.

**Task Description**

Choose the movie-rental plan that you think is best. Consider the cost of each plan, the selection offered, and how you like to receive and watch movies.

a. Write functions \( A(x) \), \( B(x) \), and \( C(x) \) that give the cost to rent \( x \) movies per month for Plans A, B, and C, respectively.

**Performance Task from Algebra 1**

1. If you consider only cost, under what condition does it make sense to choose Plan B over Plan A?

2. If you consider only cost, under what condition does it make sense to choose Plan C over Plan B?

3. If you consider only cost, under what condition does it make sense to choose Plan C over Plan A?

4. More than one Plan is always more cost-effective than Plan C. Does this mean that Plan A is a better choice than Plan B for everyone?

5. Plan A is always more cost-effective than Plan C. Does this mean that Plan B is a better choice than Plan A for everyone?
Interactive Technology

The next-generation assessments are completed on digital devices, and will include technology-enhanced and technology-enabled items. *Pearson High School Mathematics Common Core* provides interactive math tools that give students opportunities to manipulate and represent mathematics in a digital environment.

NEW Online Assessment Service

Pearson’s exclusive new online assessment service features multi-part, complex performance tasks that mirror the types of questions students will encounter on next-generation assessments. Technology-enhanced items, such as drag-and-drop, multiple-answer selected response, and free response, are brand-new and specifically designed to prepare students for upcoming Common Core tests.

Sample Algebra items from Pearson’s exclusive next-generation online assessment service which will be accessible on a variety of devices, including tablets and computers

Pearson’s Next-Generation Assessment Resources:

- Develop deep conceptual understanding
- Facilitate reasoning and problem solving
- Provide practice for new digital assessments
Common Core Performance Tasks
- Help students develop conceptual understanding of mathematical content
- Infused as an integral part of instruction, not an add-on
- Point-of-use Teacher’s Edition support includes:
  - PARCC and SBAC claims addressed by each part of the performance task
  - Scaffolding questions to support the development of students’ abilities to make explicit connections between the Standards for Mathematical Content and the Standards for Mathematical Practice

Standards for Mathematical Practice Observational Protocol Rubric
This rubric dissects mathematical practices into smaller parts, making it easier for the teacher to assess students’ proficiency with the practice standards.

Online Next-Generation Assessment Service
Exclusive to Pearson, this new online assessment service provides formative assessment that closely resembles the academic rigor and technology embedded within new Common Core assessments.

Common Core Standards Practice and Review
This resource prepares students to succeed on next-generation assessments.

Teacher:
- 30 weeks of Common Core Standards Practice modeled on next-generation assessments
- PowerPoint files with detailed teacher notes and support
- Common Core Performance-Based Assessments with rubrics
- Common Core End-of-Course Assessment

Student:
- Weekly Common Core Practice
- Practice End-of-Course Assessment
- Performance Tasks