Algebra 1 – An Open Course

Developed by The NROC Project, with generous funding from The William and Flora Hewlett Foundation

WHY NROC?

NROC’s high-quality courses are media-rich, adaptable, and affordable, a combination of features not readily available from commercial providers. With rich content mapped to state and federal standards, NROC courses can be used with or without a textbook to enhance online, blended, and face-to-face learning environments.

COURSE DESCRIPTION

This two-semester Algebra 1 course was developed for first-time algebra students with a broad range of ability levels, from remedial to advanced. The content is correlated to all U.S. state algebra frameworks and The Common Core. This course can be used as a stand-alone or as a supplement to any algebra textbook.

The flexible, learner-centered approach offers a portfolio of learning objects designed to open the door to mathematics concepts, procedures, mathematical reasoning, and critical thinking for learners.

Students work through activities in a sequence that leverages their own successful learning strategies while building their 21st century skills.

To preview the course, visit NROC.org.

COURSE COMPONENTS INCLUDE:

✓ Warm-Up: A series of problems to assess prior knowledge, resulting in customized recommendations for review.
✓ Presentation: A rich media presentation introducing the topic concept with illustrated examples and optional closed caption [CC] script in English and Spanish.
✓ Practice Problems: Symbolic and word problems designed in adaptive sets, offering students practice and feedback.
✓ Topic Text: Integrated textbook provides comprehensive coverage of every learning concept within each topic, available in English and Spanish.
✓ Review: Self-test for understanding prior to moving to the next topic.
✓ Project: Collaborative assignments in the project-based learning tradition that use real-world problems.
✓ Tutor Simulation: Cumulative unit activity offers students directed guidance in solving a multi-faceted, real-world application problem.
✓ Assessments: Formative and summative assessments designed to guide a learner’s progress.

JOIN US!

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- Solving and Graphing Linear Inequalities in Two Variables

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