DAILY LESSON PLAN

LetX Academy | Grade 9 Algebra

Teacher: Mrs. Sarah Jenkins
Period: 3rd Period
Date: October 12, 2026
Room: Room 304
Subject: Algebra I
Topic: Quadratic Equations

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Learning Objectives

- Identify coefficients a, b, and c in a standard form quadratic equation $ax^2 + bx + c = 0$.
- Solve quadratic equations using the Quadratic Formula.
- Compute and interpret the discriminant to determine the number of real solutions.

Materials & Resources

- Student Notebooks & Guided Notes Sheets
- Interactive Whiteboard & Slideshow Presentation
- Scientific Calculators (Classroom Set)
- Formative Exit Ticket Slip (1 per student)
- Practice Handout: *Solving with the Formula*

Standards & Key Vocabulary

CCSS Math: HSA-REI.B.4: Solve quadratic equations in one variable, including using the quadratic formula.
Vocabulary: Quadratic Equation, Standard Form, Coefficient, Discriminant, Square Root, Real Solution.

Lesson Procedure & Timeline

Time	Phase	Teacher Action	Student Action	Assessment
5 Min	**Bell Ringer**	Display warm-up problem on quadratic graph identification. Walk around and monitor.	Solve warm-up problem in notebooks; check work.	Observation of participation.
15 Min	**Direct Instruction**	Introduce Quadratic Formula derivation. Model step-by-step example on board.	Take active notes, copy examples, ask questions.	Thumbs up/down check for understanding.
15 Min	**Guided Practice**	Walk through two practice problems with students. Lead class call-and-response.	Work through problems on mini-whiteboards; hold up answers.	Immediate feedback on whiteboard answers.
10 Min	**Independent Work**	Distribute worksheet. Circle room to support struggling learners.	Complete worksheet problems individually or in pairs.	Check-in on individual progress.
5 Min	**Wrap-up & Exit**	Collect Exit Ticket. Review key formula components.	Complete exit ticket; pack up materials.	Exit ticket grading (formative).

Differentiation Strategy

- **Support:** Provide a step-by-step graphic organizer for the formula substitution steps.
- **Extension:** Challenge early finishers to solve $x^2 - 4x + 5 = 0$ and describe the complex solution result.

Teacher Reflection & Notes

Check if students struggle more with the negative sign inside the radical or the double negative in $-b$. Adjust tomorrow's warm-up problems based on the results of today's Exit Tickets.