

Jefferson City Public Schools–Curriculum

SUBJECT: Elementary

COURSE: EER

STRAND: Algebra Adventures

Objectives	Assessment/Evaluation	Instructional Activities
<p>(A) Define and provide examples of variables and equations</p> <p>Performance: 1.6, 1.10, 3.1, 3.3 Knowledge: (MA) 1,4 MAGLE: NO.3.C (Gr. 6,7); AR.2.A (Gr. 4-7) NETS: N/A DOK: 2-4</p>	Journal writing	<ul style="list-style-type: none"> • Pre test • Algebra vocabulary • I'm Thinking of a Number activity
<p>(B) Write journals that demonstrate their understanding of mathematical concepts, communication, and vocabulary</p> <p>Performance: 1.5-1.7, 2.1, 2.2, 2.4, 3.1, 3.4-3.8 Knowledge: (CA) 1,3,4 CAGLE: R.3.C (Gr. 5,6); W.2.E,F (Gr. 6) NETS: (3-5) 4 DOK: 2-4</p>	Teacher observation	Model and provide examples of journal entries
<p>(C) Compare and contrast expressions and equations</p> <p>Performance: 1.6, 1.8, 1.10, 2.1, 3.3 Knowledge: (CA) 4 (MA) 1,4,5 CAGLE: W.3.A (5) MAGLE: NO.2.C (Gr. 8); NO.3.C (Gr. 6,7); AR.1.B (Gr. 6); AR.2.A (Gr. 4-7) NETS: N/A DOK: 2-4</p>	<ul style="list-style-type: none"> • Students design their own mathematical trickery activity • Journal writing • Teacher observation • Quiz Checkpoint 1 	<ul style="list-style-type: none"> • Practice distinguishing between expressions and equations • Mathematical “Trickery” activity

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(D) Solve for unknown variables in variable puzzles Performance: 1.6, 1.8, 1.10, 2.1, 3.1, 3.3 Knowledge: (CA) 4 (MA) 1,4,5 MAGLE: NO.2.C (Gr. 8); NO.3.C (Gr. 6,7); AR.2.A (Gr. 6) NETS: (3-5) 4 DOK: 2-4	Journal writing – Solving Variable Puzzles	Variable Puzzle activity
(E) Learn to solve equations using the cover-up method Performance: 1.6, 1.8, 1.10, 2.1, 3.1, 3.6 Knowledge: (CA) 4 (MA) 1,4,5 CAGLE: W.3.A (Gr. 5) MAGLE: NO.2.C (Gr. 7); NO.3.C (6,7); AR.3.A (6,7) NETS: N/A DOK: 2-4	<ul style="list-style-type: none"> Teacher observation Quiz Checkpoint 2 	Cover-Up Method assignment
(F) Solve for two unknowns using an organized list Performance: 1.6, 1.8, 1.10, 2.1, 3.1 Knowledge: (CA) 4 (MA) 1,4,5 CAGLE: W.3.A (Gr. 5) MAGLE: NO.2.C (Gr. 8); NO.3.C (Gr. 6,7); AR.1.B (Gr. 5,6); AR.1.D (Gr. 7) NETS: N/A DOK: 2-4	<ul style="list-style-type: none"> Journal writing Quiz Checkpoint 3 	Pet Parade activity
(G) Solve for two unknowns using diagrams Performance: 1.6, 1.8, 1.10, 2.1, 3.3, 3.6 Knowledge: (CA) 4 (MA) 1,4,5 MAGLE: NO.2.C (Gr. 8); NO.3.C (Gr. 6,7); AR.1.B (Gr. 5,6) NETS: N/A DOK: 2-4	<ul style="list-style-type: none"> Journal writing Teacher observation Quiz Checkpoint 4 	Penny for Your Thoughts activity

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<p>(H) Solve equations with three or more variables using the substitution method</p> <p>Performance: 1.6, 1.8, 1.10, 2.1, 3.3, 3.6 Knowledge: (CA) 4 (MA) 1,4,5 CAGLE: W.3.A (Gr. 5) MAGLE: NO.1.B (Gr. 5,6); NO.2.C (Gr. 8); NO.3.C (Gr. 6,7) NETS: N/A DOK: 2-4</p>	<ul style="list-style-type: none"> • Journal writing • Unit test 	<p>Seasonal Symbols activity</p>
<p>(I) Synthesize their learning to create a mall shop. Customers will solve equations to buy products for sale in the shops</p> <p>Performance: 1.6, 1.10, 3.1, 3.6 Knowledge: (MA) 1,4,5 MAGLE: NO.2.C (Gr. 8); NO.3.C (Gr. 6,7); AR.1.B (Gr. 5,6) NETS: N/A DOK: 4</p>	<p>Students will create a mall shop that sells items using a single equation and a set of equations</p>	<p>Setting up Shop activity</p>