

Jefferson City Public Schools–Curriculum

SUBJECT: Elementary

COURSE: EER

STRAND: Algebra Adventures

Objectives	Assessment/Evaluation	Instructional Activities
(A) Define and provide examples of variables and equations 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	Journal writing	• Pre test • Algebra vocabulary • I'm Thinking of a Number activity
(B) Write journals that demonstrate their understanding of mathematical concepts, communication, and vocabulary 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	Teacher observation	Model and provide examples of journal entries
(C) Compare and contrast expressions and equations 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	• Students design their own mathematical trickery activity • Journal writing • Teacher observation • Quiz Checkpoint 1	• 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	• 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	• 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	• Journal writing • Teacher observation • Quiz Checkpoint 4	Penny for Your Thoughts activity

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(H) Solve equations with three or more variables using the substitution method 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	• Journal writing • Unit test	Seasonal Symbols activity
(I) Synthesize their learning to create a mall shop. Customers will solve equations to buy products for sale in the shops 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	Students will create a mall shop that sells items using a single equation and a set of equations	Setting up Shop activity