

# Essential Elements: High School: Algebra

## Seeing Structure in Expressions A-SSE

### **A Interpret the structure of expressions. (M)** M.A.SSE.A

- 1 Identify an algebraic expression involving one arithmetic operation to represent a real world problem. M.EE.A.SSE.1
  - 2 Not applicable.
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### **B Write expressions in equivalent forms to solve problems. (M)** M.A.SSE.B

- 3 Solve simple algebraic equations with one variable using multiplication and division. M.EE.A.SSE.3
  - 4 Determine the successive term in a geometric sequence given the common ratio. M.EE.A.SSE.4
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## Arithmetic with Polynomials and Rational Expressions A-APR

### **A Perform arithmetic operations on polynomials.** M.A.APR.A

- 1 Not applicable.
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### **B Understand the relationship between zeros and factors of polynomials.** M.A.APR.B

- 2 Not applicable.
  - 3 Not applicable.
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### **C Use polynomial identities to solve problems.** M.A.APR.C

- 4 Not applicable.
  - 5 Not applicable.
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### **D Rewrite rational expressions.** M.A.APR.D

- 6 Not applicable.
  - 7 Not applicable.
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## Creating Equations A-CED

### **A Create equations that describe numbers or relationships. (M)** M.A.CED.A

- 1 Determine an equation involving at least one variable that can be used to solve a real-world problem. M.EE.A.CED.1
  - 2 Solve one-step inequalities. M.EE.A.CED.2
  - 3 Solve one-step inequalities. M.EE.A.CED.3
  - 4 Solve one-step inequalities. M.EE.A.CED.4
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## Reasoning with Equations and Inequalities A-REI

### **A Understand solving equations as a process of reasoning and explain the reasoning.** M.A.REI.A

- 1 Not applicable.
  - 2 Not applicable. See M.EE.A.CED.1.
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### **B Solve equations and inequalities in one variable.** M.A.REI.B

- 3 Not applicable. See M.EE.A.CED.1.
  - 4 Not applicable.
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### **C Solve systems of equations.** M.A.REI.C

- 5 Not applicable.
  - 6 Not applicable. See M.EE.A.REI.10.
  - 7 Not applicable. See M.EE.A.REI.10.
  - 8 Not applicable.
  - 9 Not applicable.
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### **D Represent and solve equations and inequalities graphically.** M.A.REI.D

- 10 Interpret the meaning of a point on the graph of a line. For example, on a graph of pizza purchases, trace the graph to a point and tell the number of pizzas purchased and the total cost of the pizzas. M.EE.A.REI.10
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