

Grade 7 Math Curriculum Map

Grade 7 mathematics is about:

- (1) Developing understanding of and applying proportional relationships
- (2) Developing understanding of operations with rational numbers and working with expressions and linear equations
- (3) Solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume
- (4) Drawing inferences about populations based on samples

- [Arizona Mathematics Standards Grade 7](#)
- The standard number is designed for recording purposes and does not imply instructional sequence or importance.
- Our governing board adopted curriculum resources are Open Up Resources 6-8 Math and Zearn Math.

| Unit # | Unit Name | Key Content | Standards |
|--------|--|--|--|
| 0 | Beginning of Year | <ul style="list-style-type: none"> • Up to five days may be spent focusing on routines, expectations, and building classroom community. | |
| 1 | Scale Drawings | <ul style="list-style-type: none"> • Scaled copies • Scale drawings | 7.G.A.1 7.G.B.6 |
| 2 | Introducing Proportional Relationships | <ul style="list-style-type: none"> • Representing proportional relationships with tables • Representing proportional relationships with equations • Comparing proportional and nonproportional relationships • Representing proportional relationships with graphs | 7.G.A.1 7.G.B.6 7.RP.A 7.RP.A.1 7.RP.A.2 7.RP.A.2a 7.RP.A.2b 7.RP.A.2c |
| 3 | Measuring Circles | <ul style="list-style-type: none"> • Circumference of a circle • Area of a circle | 7.EE.B.3 7.G.A 7.G.A.1 7.G.A.2 7.G.B 7.G.B.4 7.G.B.6 7.RP.A.2 7.RP.A.2a 7.RP.A.2c 7.RP.A.3 |
| 4 | Proportional Relationships and Percentages | <ul style="list-style-type: none"> • Proportional relationships with fractions • Percent increase and decrease • Applying percentages | 7.NS.A.2d 7.RP.A.1 7.RP.A.2 7.RP.A.3 |
| 5 | Rational Number Arithmetic | <ul style="list-style-type: none"> • Interpreting negative numbers • Adding and subtracting rational numbers • Multiplying and dividing rational numbers • Four operations with rational numbers • Solving equations where there are negative | 7.EE.B.3 7.EE.B.4 7.EE.B.4a 7.NS.A |

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| | | numbers | 7.NS.A.1 7.NS.A.1a 7.NS.A.1b 7.NS.A.1c 7.NS.A.2 7.NS.A.2a 7.NS.A.2b 7.NS.A.2c 7.NS.A.2d 7.NS.A.3 7.RP.A 7.RP.A.2 |
| 6 | Expressions, Equations, and Inequalities | <ul style="list-style-type: none"> Representing situations of the form: $px + q = r$ and $p(x + q) = r$ Solving equations of the form: $px + q = r$ and $p(x + q) = r$ and problems that lead to those equations Inequalities Writing equivalent expressions | 7.EE.A.1 7.EE.A.2 7.EE.B.3 7.EE.B.4 7.EE.B.4a 7.EE.B.4b 7.NS.A.1 7.NS.A.1c |
| 7 | Angles, Triangles, and Prisms | <ul style="list-style-type: none"> Angle relationships Drawing polygons with given conditions Solid geometry | 7.EE.A 7.EE.B.4 7.G.A 7.G.A.2 7.G.A.3 7.G.B 7.G.B.5 7.G.B.6 7.NS.A.1 7.RP.A |
| 8 | Probability and Sampling | <ul style="list-style-type: none"> Probability of single step events Probability of multi-step events Sampling Using samples | 7.NS.A.2d 7.RP.A 7.SP.A 7.SP.A.1 7.SP.A.2 7.SP.B.3 7.SP.B.4 7.SP.C 7.SP.C.5 7.SP.C.6 7.SP.C.7 7.SP.C.7a 7.SP.C.7b 7.SP.C.8 7.SP.C.8a 7.SP.C.8b 7.SP.C.8c |

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| 9 | Putting it All Together | <ul style="list-style-type: none">• Synthesize and apply concepts of seventh grade math | 7.EE.A.1 7.EE.B 7.EE.B.4 7.EE.B.4a 7.G.A.1 7.G.B 7.G.B.4 7.G.B.6 7.NS.A.2d 7.NS.A.3 7.RP.A 7.RP.A.1 7.RP.A.3 7.SP.B.4 |
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