**Year-At-A-Glance**
**Advanced Math 7 Grade Math**

Bentonville Schools

| Quarter 1 | Quarter 2 |
|---|---|

## Key Ideas

- Rigid Transformations
- Properties of Rigid Transformations
- Congruence
- Scaled Copies
- Scale Drawings
- Dilations
- Similarity
- Slope
- Representing Proportional Relationships with Equations
-

**Essential Standards**

- 8.GM.10
- 7.PR.6
- 7.PR.7
- 7.PR.4

**Key Concepts**

- 8.GM.10
- 8.GM.6
- 8.GM.7
- 8.GM.8
- 8.GM.9

**Key Concepts**

- 7.PR.6
- 7.PR.7
- 7.PR.1

## Key Ideas

- Comparing Proportional and Nonproportional Relationships
- Representing Proportional Relationships with Graphs
- Circumference of a Circle
- Area of a Circle
- Proportional Relationships with Fractions
- Percent Increase and Decrease
- Applying Percentages
- Data, Variability, and Statistical Questions
- Dot Plots and Histograms
- Measures of Center and Variability
- Median and IQR

**Essential Standards**

- 7.PR.6
- 7.PR.7
- 7.PR.4
- 7.PR.3
- 7.PR.5

**Key Concepts**

- 7.PR.6
- 7.PR.7
- 7.PR.1
- 7.PR.2
- 7.PR.3
- 7.PR.5

Arkansas Math Standards: https://dese.ade.arkansas.gov/admin/Files/AR_2023_K-8,_Alg,_Geo_Math_Standards_LS_6.21.23_LS.pdf

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## Quarter 3

### Key Ideas

- Representing situations of the form $px + q = r$ and $p(x + q) = r$
- Solving equations of the forms $px + q = r$ and $p(x + q) = r$ and problems that lead to those equations
- Inequalities
- Writing Equivalent Expressions
- Equivalent Equations
- Linear Equations in One Variable
- Proportional Relationships
- Representing Linear Relationships
- Finding Slopes and Linear Equations
- Systems of Linear Equations
- Associations in Numerical Data

**Essential Standards**

- 7.ALG.1
- 7.ALG.2
- 7.ALG.5
- 7.NCC.6
- 8.ALG.1
- 8.FN.1

**Key Concepts**

- 7.ALG.1
- 7.ALG.2
- 7.ALG.5
- 7.NCC.6
- 7.NCC.1
- 7.ALG.4

**Key Concepts**

- 8.FN.1
- 8.FN.2
- 8.ALG.3

## Quarter 4

### Key Ideas

- Associations in Categorical Data
- Representing and Interpreting Functions
- Prisms and Cylinders
- Cones and Spheres
- Exponent review
- More Exponent Rules
- Large and Small Numbers
- Scientific Notation

**Essential Standards**

- 8.FN.4
- 8.FN.6
- 8.NCC.3

**Key Concepts**

- 8.FN.4
- 8.FN.6
- 8.FN.3
- 8.FN.5
- 8.NCC.3
- 8.NCC.6

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