

7th Grade Comprehensive Plan - 160 days/ 32 weeks

Chapter 0 - Review of 6th grade content (2 weeks)

0-1: Rounding (1 day)

0-2: Multiplication with Decimals/ Long Division (2 days)-INTRO MULTIPLICATION CHART

0-3: Simp Fractions/ Mixed #'s (1 day)

0-4: +/- Fractions (1 day)

0-5: Multiplying & Dividing Fractions (2 day) -Assign: All Operations w/ Fractions

0-6: O.O.O. PEMDAS/ Distributive Property (1 day)

Review Activity/ Quiz (1 day)

Chapter 3 - INTEGERS (2 weeks)

Vocabulary:(5)

1. Absolute Value 2. Integer 3. Opposites 4. Additive Inverse 5. Zero Pair 6. Fill out Types of #'s Chart

3-1: Integers and Absolute Value - INTRO: Types of #'s Chart (1 day)

3-2: +/- Integers (3 days)

Day 1: Using a number line

Day 2: Use Tree of Thought (Shortcut)

Day 3: Review Tree of Thought

3-3: Multiplying & Dividing Integers

Chapter 4 - RATIONAL #'S (2 weeks)

Vocabulary: (5)

1. Bar Notation 2. Rational #'s 3. Terminating Decimal 4. Rational #'s 5. Common Denominator

4-1/ 4-3: Rational #'s on the Number Line/ Compare and Order Rational #'s/ Fractions,Decimals, %s

4-2: Terminating & Repeating Decimals (1 day)

4-3: +/- Fractions and Decimals w/ Negatives (2 days)

4-4: Multiplying/Dividing Rational #'s with Negatives - complex fractions

4-5: Conversions (2-3 days)

TEST (Chapter 3 & Chapter 4)

Chapter 1- RATES, RATIOS AND PROPORTIONS

Vocabulary: (11)

1. Complex Fraction 2. Constant of Proportionality 3. Constant Rate of Change/Slope 4. Equivalent Ratios/Proportion 5. Nonproportional 6. Ordered Pair 7. Origin 8. Ratio 9. Rate 10. Unit Rate 11. Direct Variation*

1-1: Ratios vs. Rate Vs. Unit Rate Vs. Unit Cost (2 days)

Day 1: Ratios & Rates

Day 2: Unit Rates & Unit Costs(\$)

1-2: Complex Fractions and Unit Rates (1 day)

1-4: Proportional and Nonproportional (1 day)

1-5: Graph Proportional Relationships (1 day)

1-6: Solve Proportional Relationships

1-7: Constant Rate of Change

1-8: Slope

*1-9: Direct Variation

TEST

Chapter 2 & 5/6 - EXPRESSIONS & EQUATIONS

Vocabulary (8) (12) (Total = 20)

1. **Markdown/Discount** 2. **Markup** *3. **Percent Error** 4. **Percent of Change** 5. **Principal** 6. **Sales Tax** 7. **Simple Interest** 8. **Tip/Gratuity**
2. 1. **Algebraic Expression** 2. **Associative Property** 3. **Coefficient** 4. **Commutative Property** 5. **Constant** 6. **Define a Variable** 7. **Distributive Property** 8. **Factor** 9. **Like Terms** 10. **Linear Expression** 11. **Sequence** 12. **Term** 13. **Equation** 14. **Two-Step Equation**

5-2: Sequence

2-1: Using PROPORTIONS Find Percent of a Number

2-2: Using EQUATIONS Find Percent of a Number

2-6: Tip, Commission, Sales Tax

2-5: Percent of Change/Percent Error

2-8: Simple Interest ($I = prt$)

5-1: Writing algebraic expressions - INTRO "KEY WORD CHART" - Add edits

5-8: Factor Algebraic Expressions

5-5/6: Simplifying Algebraic Expressions (color code and add) (2 days)

6-2: One Step Equations - all operations (2 days)

6-3: Rational Coefficients (1 day)

6-4: Two Step Equations (P-AS-MD-E)

6-5: Multi-Step Equations w/ Distributive Property

TEST

Chapter 6: Inequalities

Vocabulary (5)

1. **Coefficient** 2. **Inequality** 3. **Two-Step Inequality**

6-1: Graphing Inequality Solutions/Answers

6-2: [6-6] Solving One Step Inequalities

6-3: [6-8] Solving Two Step Inequalities

Quiz

Chapter 7: Geometric Figures

Vocabulary: (20)

[7-3] 1. **Scalene Triangle** 2. **Equilateral Triangle** 3. **Isosceles Triangle** 4. **Acute Triangle** 5. **Obtuse Triangle** 6. **Right Triangle (Triangles)**

7. **Complementary Angles** 8. **Adjacent Angles** 9. **Supplementary Angles** 10. **Vertical Angles (Pairs of Angles)**

11. **Polyhedron** 12. **Prism** 13. **Cylinder** 14. **Cone** 15. **Pyramid** (3D Shapes)

16. **Base** 17. **Face** 18. **Vertex** 19. **Edge** 20. **Scale/Scale Drawing**

7-1: Classify Angles -INTRO 2D vs. 3D Shapes Chart

7-2: Complementary and Supplementary Angles

7-3: Triangles

7-4: Scale Drawings [1-1/1-2]

*7-5: Drawing 3D Figures

7-6: Cross Sections

Test

Chapter 8: Measure Figures

Vocabulary (11)

- 1. Center 2. Circumference 3. Diameter 4. Pi 5. Radius 6. Regular Pyramid 7. Slant Height 8. Surface Area 9. Volume 10. Semicircle 11. Net**

8-1: Circumference

8-2: Area of a Circle

8-3: Area of Composite Figures (Decomposition of shapes)

8-4: Volume of Prisms (Triangular & Rectangular)

8-5: Volume of Pyramids (Base of Triangle & Base of Rectangular/Square)

8-6: Surface Area of Prisms (NETS)

8-7: Surface Area of Pyramids

8-8: Volume and Surface Area of Composite Figures (Decomposition)

Test

Chapter 9 & 10: Probability/Statistics

Vocabulary (15 + 7 = 22)

Chapter 9

- 1. Complementary Events 2. Compound Events 3. Dependent Events 4. Experimental Probability 5. Fair/Unfair 6. Fundamental Counting Principle 7. Independent Events 8. Permutation 9. Probability 10. Relative Frequency 11. Sample Space 12. Simple Event 13. Simulation 14. Theoretical Probability 15. Tree Diagram**
- 2. 1. Biased Sample/ Unbiased Sample 2. Double box plot 3. Double Dot Plot 4. Population 5. Statistics 6. Voluntary Response Sample 7. Systematic Random Sample**

9-1: Probability of Simple Events

9-2: Theoretical(Future Expectation) & Experimental Probability

9-3: Probability of Compound Events

9-4: Simulations

9-5: Fundamental Counting Principle

9-6: Permutations

9-7: Independent & Dependent Events

10-1: Make Predictions

10-2: Unbiased & Biased Samples

10-3: Misleading Graphs and Stats

10-4: Box Plots/Double

10-5: Select the MOST Appropriate Visual Representation (Bar Graph, Box plot, Histogram, Ect.)

Test