Scope and Sequence

Follows the McGraw Hill Course 2 Book

Key: 1.1 = Chapter one, lesson one

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| **INTERMEDIATE I****Scope and Sequence****Term 1** |
| **Unit 2 The Number System****Chapter 3 Integers (7.NS.3)** |  |
| Date | Lesson(s) | Objective(s) | Homework |
| 1 day | 3.1 Integers and Absolute Values  | Read and write Integers and absolute values. 7.NS.1 | 3.1 page 195 1-17 |
| ½ day | 3.2 Add Integers | Add Integers. 7.NS.1 | 3.2 page 209 19-30 |
| ½ day | 3.3 Subtract Integers | Subtract Integers 7.NS.1 | 3.3 page 221 22-34 |
| ½ day | 3.4 Multiply Integers | Multiply Integers 7.NS.2 | 3.4 page 237 1-8, 10-11 |
| ½ day | 3.5 Divide Integers | Divide Integers 7.NS.2 | 3.5 page 247 1-12 |
| **Unit 2 The Number System****Chapter 4 Rational Numbers** |  |
| 1 day | 4.1 Terminating & Repeating Decimals | Write fractions and terminating and repeating decimals or vice versa. 7.NS.2 | 4.1 page 267 1-17, 21-22 |
| 1 day | 4.2 Compare and Order Rational Numbers | Compare and Order Rational Numbers. 7.NS.2 | 4.2 page 275 1-10, 14-21 |
| ½ day | 4.3 Add and Subtract Like Fractions | Add and subtract like fractions with common denominator. 7.NS.2 | 4.3 page 287 1-8 |
| ½ day | 4.4 Add and Subtract Unlike Fractions | Add and subtract fractions with different denominators. 7.NS.1 | 4.4 page 295 1-12 |
| 1 day | 4.5 Add and Subtract Mixed Numbers | Add and Subtract Mixed Numbers. 7.NS.1 | 4.5 page 303 1-9, 13-16, 21-25 |
| 1 day | 4.6 Multiply Fractions | Multiply fractions and mixed numbers. 7.NS.1 | 4.6 page 315 1-13, 17-26 |
| 1 day | 4.8 Divide Fractions | Divide Fractions and mixed Numbers. 7.NS.1 | 4.8 page 331 1-7, 12-14 |
| 2 day | 4.7 Convert Between Systems | Convert units of measure between the customary and metric system. 7.RP.1 | 4.7 Skill practice worksheet |
|  | 4.7 Convert Between Systems | Convert units of measure between the customary and metric system. 7.RP.1 | 4.7 page 323 1-14, 19-21 |
| **Unit 1 Ratios and Proportional Relationships****Chapter 1 Ratios and Proportional Reasoning** |  |
| 1 day | 1.1 Rates | Determine Unit Rates. 7.RP.2 | 1.1 page 13 1-7, 9-10, 12-15 |
| 1 day | 1.2 Complex Fractions and Unit rates | Simplify complex fractions and find unit rates. 7.NS.1 | 1.2 page 21 1-13 ODD, 16, 18, 35-37 |
| 1 day | 1.3 Convert Unit Rates | Convert units of measure between derived units to solve problems. 7.RP.2 | 1.3 page 29 1-8, 10, 12, 23-25 |
| **Unit 2 Ratios and Proportional Relationships** **Chapter 2 Percents** |  |
| ½ day | 2.1 Percent of a Number | Find percent of a number. 7.RP.3 | 2.1 page 107 2-22 EVENS |
| ½ day | 2.2 Percent of Estimation | Estimate percents using Fractions and decimals. 7.RP.3 | 2.2 page 115 7-17, 19-20 |
| ½ day | 2.3 The Percent Proportion | Use the Percent Proportion 7.RP.2 | 2.3 page 125 1-13 |
| ½ day | 2.4 The Percent Equation | Use the Percent Equation. 7.RP.2 | 2.4 page 133 1-9, ODD, 10-16 |
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| 1 day | 2.5 Percent of Change | Find Percent of Change and percent error. 7.RP.3  | 2.5 page 147 1-11, 13-20 |
| 1 day | 2.6 Sales Tax, Tip, and Mark-up | Solve problems involving sales tax, tip, and mark up. 7.RP.3 | 2.6 page 155 1-14 |
| 1 day | 2.7 Discount | Solve problems involving discount. 7.RP.3 | 2.7 page 163 1-14 |
| Teach 2.6 and 2.7 together and review a day |  |
| 1 day | 2.8 Simple Interest | Solve problems involving Simple Interest. 7.EE.4 | 2.8 page 171 1-13, 25-30 |
| 1 day | 1.4 Proportional & Non-proportional Relationships | Identify proportional and non-proportional relationships. 7.RP.2 | Page 37; 1-12, 16-22 |
| 1 day | 1.5 Graph Proportional Relationship | Identify proportional relationships by graphing on the coordinate plane. 7.RP.2 | Page 49; 1-4, 11-19 |
| 1 day | 1.6 Solve Proportional Relationships | Use proportions to solve problems. 7.RP.2 | Page 59; 1-8, 10, 12-14 |
| 1 day | 1.7 Constant Rate of Change | Identify constant rates of change using tables and graphs. 7.RP.2 | Page 69; 1-5, 7-9, 17-22 |
| 2 day | 1.8 Slope | Identify slope using tables and graphs. 7.RP.2 | 1.8 Skill Practice Worksheet & 1.8 page 77 1-4, 9-13 |
| **Unit 3****Expressions and Equations****Chapter 5 Expressions** |  |
| 1 day | 5.1 Algebraic Expressions | Evaluate simple algebraic expressions. 7.EE.1 | 5.1 page 1-15, 31-36 |
| 1 day | 5.2 Sequences | Describe Relationships and extend terms in arithmetic sequences. 7.EE.2 | 5.2 page 363 16-36 |
| 1 day | Greatest Common Factor | Review and understand GCF. 7.NS.2 | Worksheet (not taught in book) |
| 1 day | 5.3 Properties of Operation | Identify and use mathematical Properties. 7.EE.1 | Skill Practice Worksheet |
| 1 day | 5.8 Factor Linear Expressions | Use properties of mathematics to factor expressions. 7.EE.1 | Skill Practice Worksheet |
| 1 day | 5.4 Distributive Property | Apply the Distributive property to rewrite algebraic expressions. 7.EE.1 | 5.4 page 379 1-12, 31-38 |
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| 1 day | 5.5 Simplify Algebraic Expression | Simplify Algebraic expressions. 7.EE.1  | Skill Practice Worksheet |
| ½ day | 5.6 Add linear Expressions | Add linear expressions. 7.EE.1 | 5.6 page 407 1-11 |
| ½ day | 5.7 Subtract Linear Expressions | Subtract linear expressions. 7.EE.1 | 5.7 page 399 1-11 |
| **Unit 3****Expressions and Equations****Chapter 6 Equations (7.EE.3)** |
| 1 day | 6.1 Solve one step equations | Solve one step equations using add and subtract. 7.EE.4 | 6.1 page 441 1-6, 10-13, 25-33 |
| 1 day | 6.2 Solve one step equations | Solve one step equations using multiply & divide. 7.EE.4 | 6.2 page 451 1-9, 17-23, 30-41 ODD |
| 1 day | 6.4 Solve two step equations | Solve two step equations. 7.EE.4 | 6.4 page 473 1-6, 8-11, 24-34 |
| 1 day | 6.5 Solve two step equations | Solve two step equations with rational numbers. 7.EE.4 | Worksheet (don’t like what book offers) |
| ½ day | 6.6 Solve inequalities | Solve one step inequalities using add and subtract. 7.EE.4 | 6.6 page 501 1-7 |
| ½ day | 6.7 Solve inequalities | Solve one step using multiply and divide inequalities. 7.EE.4 | 6.7 page 507 1-13 |
| 1 day | 6.8 Solve inequalities | Solve multi-step inequalities. 7.EE.4 | 6.8 page 517 1-9, 16-21, 25-27 |
| **Unit 4 Geometry****Chapter 7 Geometric Figures** |  |
| ½ day | 7.1 Classify Angles | Classify angles and identify vertical and adjacent angles. 7.G.5 | 7.1 page 539 1-11 |
| ½ day | 7.2 Complementary and Supplementary Angles | Classify angles and identify vertical and adjacent angles. 7.G.5 | 7.2 page 547 1-11 |
| 1 day | 7.3 Triangles | Solve equations using triangles. 7.G.2 | 7.3 page 1-8, 13-26 |
| 2 day | 7.4 Scale Drawings | Solve problems involving Scale Drawings. 7.G.1 | Skill Practice Worksheet & 7.4 Page 579 1-6, 11-17 |
| 1 day | 7.5 Draw 3D figures | Draw and label 3D figures. 7.G.3 | 7.5 page 589 1-5, 9, 11-19 |
| 1 day | 7.6 Cross Sections | Identify and draw 3D cross sections. 7.G.3 | 7.6 page 597 1-6, 11-20 |
| **Unit 4 Geometry****Chapter 8 Measure Figures** |  |
| ½ day | 8.1 Circumference of a circle | Find the circumference of a circle. 7.G.4 | 8.1 page 617 1-6, 10-14 |
| ½ day | 8.2 Area of a circle | Find the area of a circle and semicircle. 7.G.4 | 8.2 page 627 1-6, 9-12 |
| 2 day | 8.3 Area of Composite figures | Find the area of Composite Figures. 7.G.6 | 8.3 page 635 1-14 & 8.3 page 637 16-28 |
| **Intermediate I****Scope and Sequence****Term 4** |
| 1 day | 8.4 Volume of a Prism | Find the volume of a prism. 7.G.6 | 8.4 page 645 11-18 |
| 1 day | 8.5 Volume of a Pyramid | Find the volume of a pyramid. 7.G.6 | 8.5 page 659 16 – 23 |
| ½ day | 8.6 Surface Area of a Prism | Find the surface area of a prism. 7.G.6 | 8.6 page 671 14-19 |
| ½ day | 8.7 Surface Area of a Pyramid | Find the surface area of a pyramid. 7.G.6 | 8.7 page 683 14-19 |
| 1 day | 8.8 Find the Volume and Surface area Composite figures | Find the volume and surface area of composite figures. 7.G.6 | 8.8 page 693 1-8 (#6 is very challenging) |
| **Unit 5 Statistics and Probability****Chapter 9 Probability (7.SP.2)** |  |
| ½ Day | 9.1 Probability of Simple events.  | Find and interpret the probability of a simple event. 7.SP.5 | 9.1 page 715 1-5, 14-20 |
| ½ day | 9.2 Theoretical and Experimental Probability.  | Find and compare experimental and Theoretical Probability. 7.SP.7 | 9.2 page 725 10-18 |
| ½ day | 9.3 Probability of Compound Event.  | Find Probabilities of compound events. 7.SP.8 | 9.3 page 737 1-6 |
| ½ day | 9.5 Fundamental counting Principle.  | Use multiplication to count outcomes and find probabilities. 7.SP.8b | 9.5 page 761 1-18 |
| 1 day  | 9.4 Simulations.  | Perform probability simulations to model real-world situations involving uncertainty. 7.SP.8 | 9.4 page 747 1-20 |
| 1 day | 9.6 Permutations.  | Find the number of permutations of a set of objects and find probabilities. 7.SP.8 | 9.6 page 769 1-6, 15 – 19 |
| 1 day | 9.7 Independent and Dependent Events.  | Find the probability of independent and dependent events. 7.SP.8 | 9.7 page 779 1-10, 21 – 30 |
| **Unit 5 Statistics and Probability****Chapter 10 Statistics (7.SP.3)** |  |
| 1 day | 10.1 Make Predictions.  | Predict actions of a larger group by using a sample. 7.SP.6 | 10.1 page 797 1-11 |
| 1 day | 10.2 Unbiased and Biased Samples.  | Determine whether sample methods are valid. 7.SP.1 | 10.2 page 805 1- 10 |
| 1 day | 10.3 Misleading graphs and statistics.  | Recognize when statistics and graphs are misleading. 7.SP.1 | 10.3 page 817 1-3, 8, 10-11, 16 |
| 1 day | 10.4 Compare Populations.  | Compare two populations. 7.SP.4 | 10.4 page 833 1-2, 7-16 |
| 1 day | 10.5 Select an Appropriate Display.  | Select, organize and construct appropriate data displays. 7.SP.1 | 10.5 page 843 1-3, 8, 10-11, 16 |