



IXL Skill Alignment

Course 1 alignment for McGraw-Hill Integrated Math



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Chapter 0

Preparing for Integrated Math

Textbook section	IXL skills
Lesson 0-1: Plan For Problem Solving	1. Word problems: mixed review Z7P
Lesson 0-2: Real Numbers	1. Square roots 7PZ 2. Sort rational and irrational numbers ALH 3. Classify rational and irrational numbers 3S8
Lesson 0-3: Operations with Integers	1. Add, subtract, multiply, and divide integers UNC
Lesson 0-4: Adding & Subtracting Rational Numbers	1. Add and subtract rational numbers J8R
Lesson 0-5: Multiplying & Dividing Rational Numbers	1. Multiply and divide rational numbers H6L
Lesson 0-6: The Percent Proportion	1. Solve percent equations 39N
Lesson 0-7: Perimeter	1. Perimeter 6NC
Lesson 0-8: Area	1. Area LLC
Lesson 0-9: Volume	1. Volume BK9
Lesson 0-10: Surface Area	1. Surface area VGT
Lesson 0-11: Simple Probability & Odds	1. Theoretical probability 2MS 2. Counting principle GTX
Lesson 0-12: Measures of Center, Variation, & Position	1. Mean, median, mode, and range MHB 2. Calculate quartiles and interquartile range 8H9
Lesson 0-13: Representing Data	1. Create bar graphs, line graphs, and histograms EF6

Chapter 1

Expressions, Equations, and Functions

Textbook section	IXL skills
Lesson 1-1: Variables and Expressions	1. Write variable expressions D7K
Lesson 1-2: Order of Operations	1. Evaluate numerical expressions involving integers ZFX 2. Evaluate variable expressions involving integers AZT 3. Exponents with integer bases EJ8
Lesson 1-3: Properties of Numbers	1. Properties of addition and multiplication TQS
Lesson 1-4: The Distributive Property	1. Distributive property BHL 2. Simplify variable expressions involving like terms and the distributive property ZXX
Lesson 1-5: Equations	1. Does x satisfy the equation? JPC 2. Which x satisfies an equation? YTT 3. Solve equations using order of operations 8NT
Lesson 1-6: Relations	1. Coordinate plane review H6E 2. Relations: convert between tables, graphs, mappings, and lists of points RBG 3. Domain and range of relations 2CG 4. Identify independent and dependent variables N55
Lesson 1-7: Functions	1. Identify functions VLL 2. Identify functions: vertical line test HLX 3. Evaluate a function R96 4. Evaluate a function: plug in an expression VNZ 5. Complete a function table from a graph HXF 6. Complete a function table from an equation Z73
Lesson 1-8: Interpreting Graphs of Functions	1. Find values using function graphs QCG 2. Interpret the graph of a function: word problems STU

Chapter 2

Linear Equations

Textbook section	IXL skills
Lesson 2-1: Writing Equations	1. Write variable equations YVW
Lesson 2-2: Solving One-Step Equations	1. Write and solve equations that represent diagrams GBC 2. Solve one-step linear equations TXJ
Lesson 2-3: Solving Multi-Step Equations	1. Model and solve equations using algebra tiles GRH 2. Solve two-step linear equations QAK 3. Solve advanced linear equations 28N 4. Solve linear equations: word problems UFG 5. Consecutive integer problems HDF
Lesson 2-4: Solving Equations with the Variable on Each Side	1. Solve equations with variables on both sides 7S7 2. Solve equations: complete the solution EVP 3. Solve linear equations: mixed review DN6
Lesson 2-5: Solving Equations Involving Absolute Value	1. Solve absolute value equations 9LF 2. Graph solutions to absolute value equations KXA
Lesson 2-6: Ratios and Proportions	1. Identify equivalent ratios 8UE 2. Unit rates 8FZ 3. Solve proportions 2ZL 4. Solve proportions: word problems 8ES 5. Solve percent equations 39N
Lesson 2-7: Percent of Change	1. Percent of change GRG 2. Percent of change: word problems 59V 3. Percent of a number: tax, discount, and more SKZ 4. Find the percent: tax, discount, and more VQX

Lesson 2-8: Literal Equations and Dimensional Analysis

1. Convert rates and measurements: customary units TXC
2. Convert rates and measurements: metric units 6W2
3. Rearrange multi-variable equations WSJ

Lesson 2-9: Weighted Averages

1. Weighted averages: word problems 2TQ

Chapter 3

Linear Functions

Textbook section	IXL skills
Lesson 3-1: Graphing Linear Equations	<ol style="list-style-type: none">1. Write equations in standard form ESP2. Standard form: find x- and y-intercepts 8SN3. Standard form: graph an equation U6U
Lesson 3-2: Solving Linear Equations by Graphing	<ol style="list-style-type: none">1. Write linear functions: word problems 9RQ2. Complete a table and graph a linear function JFG
Lesson 3-3: Rate of Change and Slope	<ol style="list-style-type: none">1. Find the slope of a graph E7D2. Find the slope from two points MD53. Find a missing coordinate using slope 5C7
Lesson 3-4: Direct Variation	<ol style="list-style-type: none">1. Find the constant of variation 9TD2. Graph a proportional relationship DAQ3. Write direct variation equations Y6M4. Write and solve direct variation equations GUW
Lesson 3-5: Arithmetic Sequences as Linear Functions	<ol style="list-style-type: none">1. Arithmetic sequences ALG2. Write variable expressions for arithmetic sequences 5VF
Lesson 3-6: Proportional and Nonproportional Relationships	<ol style="list-style-type: none">1. Identify proportional relationships PAV

Chapter 4

Equations of Linear Functions

Textbook section	IXL skills
Lesson 4-1: Graphing Equations in Slope-Intercept Form	<ol style="list-style-type: none"> 1. Slope-intercept form: find the slope and y-intercept R5T 2. Slope-intercept form: graph an equation UWB 3. Linear equations: solve for y T5F 4. Graph a horizontal or vertical line BTK
Lesson 4-2: Writing Equations in Slope-Intercept Form	<ol style="list-style-type: none"> 1. Slope-intercept form: write an equation A42 2. Slope-intercept form: write an equation from a table SSE 3. Slope-intercept form: write an equation from a word problem HWM
Lesson 4-3: Writing Equations in Point-Slope Form	<ol style="list-style-type: none"> 1. Point-slope form: graph an equation F8H 2. Point-slope form: write an equation PPE 3. Point-slope form: write an equation from a graph LBX
Lesson 4-4: Parallel and Perpendicular Lines	<ol style="list-style-type: none"> 1. Slopes of parallel and perpendicular lines ADB 2. Write an equation for a parallel or perpendicular line 5SH
Lesson 4-5: Scatter Plots and Lines of Fit	<ol style="list-style-type: none"> 1. Interpret a scatter plot 8BS 2. Scatter plots: line of best fit Y2S
Lesson 4-6: Regression and Median-Fit Lines	<ol style="list-style-type: none"> 1. Match correlation coefficients to scatter plots FQ7 2. Calculate correlation coefficients E8T 3. Find the equation of a regression line WJC 4. Interpret regression lines SEQ 5. Analyze a regression line of a data set 8D8
Lesson 4-7: Inverse Linear Functions	

Chapter 5

Linear Inequalities

Textbook section	IXL skills
Lesson 5-1: Solving Inequalities by Addition and Subtraction	<ol style="list-style-type: none"> 1. Identify solutions to inequalities 5UE 2. Solve one-step linear inequalities: addition and subtraction RZV
Lesson 5-2: Solving Inequalities by Multiplication and Division	<ol style="list-style-type: none"> 1. Solve one-step linear inequalities: multiplication and division BRJ 2. Solve one-step linear inequalities EEX 3. Graph solutions to one-step linear inequalities E2Z
Lesson 5-3: Solving Multi-Step Inequalities	<ol style="list-style-type: none"> 1. Solve two-step linear inequalities NPZ 2. Graph solutions to two-step linear inequalities XVM 3. Solve advanced linear inequalities 9K8 4. Graph solutions to advanced linear inequalities 5GC
Lesson 5-4: Solving Compound Inequalities	<ol style="list-style-type: none"> 1. Graph compound inequalities BQX 2. Write compound inequalities from graphs 6UV 3. Solve compound inequalities GXA 4. Graph solutions to compound inequalities LHX
Lesson 5-5: Inequalities Involving Absolute Value	<ol style="list-style-type: none"> 1. Solve absolute value inequalities HXH 2. Graph solutions to absolute value inequalities NE9
Lesson 5-6: Graphing Inequalities in Two-Variables	<ol style="list-style-type: none"> 1. Does (x, y) satisfy the inequality? N9L 2. Linear inequalities: solve for y UYU 3. Graph a two-variable linear inequality HHP 4. Linear inequalities: word problems ZAY

Chapter 6

Systems of Linear Equations and Inequalities

Textbook section	IXL skills
Lesson 6-1: Graphing Systems of Equations	<ol style="list-style-type: none"> Solve a system of equations by graphing TSS Solve a system of equations by graphing: word problems BVB Find the number of solutions to a system of equations by graphing HJW Classify a system of equations by graphing T2D
Lesson 6-2: Substitution	<ol style="list-style-type: none"> Solve a system of equations using substitution 8P9 Solve a system of equations using substitution: word problems US9
Lesson 6-3: Elimination Using Addition and Subtraction	
Lesson 6-4: Elimination Using Multiplication	<ol style="list-style-type: none"> Solve a system of equations using elimination A48 Solve a system of equations using elimination: word problems NHR
Lesson 6-5: Applying Systems of Linear Equations	<ol style="list-style-type: none"> Solve a system of equations using any method HLV Solve a system of equations using any method: word problems GDQ
Lesson 6-6: Systems on Inequalities	<ol style="list-style-type: none"> Is (x, y) a solution to the system of inequalities? VFC Solve systems of linear inequalities by graphing SGH

Chapter 7

Exponents and Exponential Functions

Textbook section	IXL skills
Lesson 7-1: Multiplication Properties of Exponents	<ol style="list-style-type: none"> 1. Multiplication with exponents HQD 2. Identify monomials QSC 3. Multiply monomials 52N 4. Powers of monomials 7Q8
Lesson 7-2: Division Properties of Exponents	<ol style="list-style-type: none"> 1. Negative exponents SCM 2. Division with exponents 9SS 3. Multiplication and division with exponents HPK 4. Power rule RWY 5. Divide monomials B48
Lesson 7-3: Rational Exponents	<ol style="list-style-type: none"> 1. Evaluate integers raised to rational exponents PQH
Lesson 7-4: Scientific Notation	<ol style="list-style-type: none"> 1. Convert between standard and scientific notation 7DX 2. Compare numbers written in scientific notation V8N 3. Multiply numbers written in scientific notation TPB 4. Divide numbers written in scientific notation PY5
Lesson 7-5: Exponential Functions	<ol style="list-style-type: none"> 1. Evaluate an exponential function D6H 2. Match exponential functions and graphs 72J 3. Domain and range of exponential functions: graphs ANC 4. Domain and range of exponential functions: equations DZE
Lesson 7-6: Growth and Decay	<ol style="list-style-type: none"> 1. Exponential growth and decay: word problems UKG

Lesson 7-7: Geometric Sequences as Exponential Functions

1. Identify arithmetic and geometric sequences X76
2. Geometric sequences HLJ
3. Write variable expressions for geometric sequences XPC

Lesson 7-8: Recursive Formulas

Chapter 8

Radical Functions, Rational Functions, and Geometry

Textbook section	IXL skills
Lesson 8-1: Square Root Functions	<ol style="list-style-type: none"> 1. Evaluate a radical function UWC 2. Domain and range of radical functions: graphs UXG 3. Domain and range of radical functions: equations 73C
Lesson 8-2: Simplifying Radical Expressions	<ol style="list-style-type: none"> 1. Simplify radical expressions ZFF 2. Simplify radical expressions with variables 82V 3. Simplify radical expressions involving fractions VRZ 4. Multiply radical expressions HMX 5. Divide radical expressions TYC
Lesson 8-3: Operations with Radical Expressions	<ol style="list-style-type: none"> 1. Add and subtract radical expressions DLV 2. Simplify radical expressions using the distributive property 28V
Lesson 8-4: Radical Equations	<ol style="list-style-type: none"> 1. Solve radical equations I MMG 2. Solve radical equations II ZGH
Lesson 8-5: Inverse Variation	<ol style="list-style-type: none"> 1. Identify direct variation and inverse variation 9Y5 2. Write inverse variation equations ECT 3. Write and solve inverse variation equations UWS
Lesson 8-6: Rational Functions	<ol style="list-style-type: none"> 1. Rational functions: asymptotes and excluded values B6J
Lesson 8-7: Rational Equations	<ol style="list-style-type: none"> 1. Solve rational equations VLW

Chapter 9

Statistics and Probability

Textbook section	IXL skills
Lesson 9-1: Statistics and Parameters	<ol style="list-style-type: none">1. Mean absolute deviation A5C2. Variance and standard deviation HX5
Lesson 9-2: Distributions of Data	<ol style="list-style-type: none">1. Box plots YE9
Lesson 9-3: Comparing Sets of Data	

Chapter 10

Tools of Geometry

Textbook section	IXL skills
Lesson 10-1: Points, Lines, and Planes	
Lesson 10-2: Linear Measure	<ol style="list-style-type: none"> 1. Lengths of segments on number lines JSD 2. Additive property of length 7RA 3. Congruent line segments 6W6
Lesson 10-3: Distance and Midpoints	<ol style="list-style-type: none"> 1. Midpoints 7RH 2. Midpoint formula: find the midpoint 2YG 3. Distance formula 59F
Lesson 10-4: Angle Measure	<ol style="list-style-type: none"> 1. Angle vocabulary 9U2 2. Angle measures BCQ 3. Construct an angle bisector FHL
Lesson 10-5: Constructing Perpendicular	<ol style="list-style-type: none"> 1. Construct a perpendicular line BZR
Lesson 10-6: Two-Dimensional Figures	<ol style="list-style-type: none"> 1. Perimeter 6NC 2. Area LLC 3. Polygon vocabulary KHQ 4. Area of rectangles and squares SUA 5. Area and perimeter in the coordinate plane I QWZ 6. Area and perimeter in the coordinate plane II MHQ 7. Area and circumference of circles ZDX
Lesson 10-7: Proving Segment Relationships	
Lesson 10-8: Proving Angle Relationships	<ol style="list-style-type: none"> 1. Identify complementary, supplementary, vertical, adjacent, and congruent angles 7P7 2. Find measures of complementary, supplementary, vertical, and adjacent angles VZU 3. Proofs involving angles HV9

Chapter 11

Parallel and Perpendicular Lines

Textbook section	IXL skills
Lesson 11-1: Parallel Lines and Transversals	<ol style="list-style-type: none">1. Identify parallel, intersecting, and skew lines and planes QZD2. Transversals: name angle pairs V85
Lesson 11-2: Angles and Parallel Lines	<ol style="list-style-type: none">1. Transversals of parallel lines: find angle measures WB9
Lesson 11-3: Slopes of Lines	<ol style="list-style-type: none">1. Slopes of lines V2T2. Slopes of parallel and perpendicular lines 6K2
Lesson 11-4: Equations of Lines	<ol style="list-style-type: none">1. Equations of lines Q982. Equations of parallel and perpendicular lines VEB
Lesson 11-5: Proving Lines Parallel	<ol style="list-style-type: none">1. Proofs involving parallel lines I CUV2. Proofs involving parallel lines II 5U8
Lesson 11-6: Perpendiculars and Distance	<ol style="list-style-type: none">1. Find the distance between a point and a line GWC2. Find the distance between two parallel lines A7B

Chapter 12

Congruent Triangles

Textbook section	IXL skills
Lesson 12-1: Classifying Triangles	1. Classify triangles TNN
Lesson 12-2: Angles of Triangles	1. Triangle Angle-Sum Theorem UBU 2. Exterior Angle Theorem TGK
Lesson 12-3: Congruent Triangles	1. Congruence statements and corresponding parts CYL 2. Solve problems involving corresponding parts WYB 3. Identify congruent figures HU9
Lesson 12-4: Proving Triangles Congruent-SSS, SAS	1. SSS and SAS Theorems 48Q 2. Proving triangles congruent by SSS and SAS VVZ 3. SSS Theorem in the coordinate plane C5G
Lesson 12-5: Proving Triangles Congruent-ASA, AAS	1. ASA and AAS Theorems N94 2. Proving triangles congruent by ASA and AAS 23Z 3. SSS, SAS, ASA, and AAS Theorems LER 4. Proving triangles congruent by SSS, SAS, ASA, and AAS SZL 5. Proofs involving corresponding parts of congruent triangles AKL
Lesson 12-6: Isosceles and Equilateral Triangles	1. Congruency in isosceles and equilateral triangles HPR 2. Proofs involving isosceles triangles V45
Lesson 12-7: Congruence Transformations	1. Classify congruence transformations CXT
Lesson 12-8: Triangles and Coordinate Proof	

Chapter 13

Quadrilaterals

Textbook section	IXL skills
Lesson 13-1: Parallelograms	1. Properties of parallelograms LLK
Lesson 13-2: Tests for Parallelograms	1. Proving a quadrilateral is a parallelogram H89
Lesson 13-3: Rectangles	
Lesson 13-4: Rhombi and Squares	1. Properties of rhombuses QVX 2. Properties of squares and rectangles R9M
Lesson 13-5: Trapezoids and Kites	1. Identify trapezoids TRZ 2. Graph quadrilaterals M5F 3. Properties of trapezoids UC9 4. Properties of kites LZ9 5. Review: properties of quadrilaterals Q2R

Chapter 14

Similarity, Transformations, and Symmetry

Textbook section	IXL skills
Lesson 14-1: Similar Triangles	1. Similar triangles and indirect measurement JWK 2. Similarity rules for triangles XJQ
Lesson 14-2: Parallel Lines and Proportional Parts	1. Midsegments of triangles 8GT 2. Triangle Proportionality Theorem 6WA
Lesson 14-3: Similarity Transformations	1. Dilations: scale factor and classification ZDM
Lesson 14-4: Reflections	1. Reflections: graph the image SM9 2. Reflections: find the coordinates SVY
Lesson 14-5: Translations	1. Translations: graph the image 7AC 2. Translations: find the coordinates F8U
Lesson 14-6: Rotations	1. Rotations: graph the image 6SD 2. Rotations: find the coordinates ZX5
Lesson 14-7: Compositions of Transformations	1. Sequences of congruence transformations: graph the image WHW
Lesson 14-8: Symmetry	1. Line symmetry WBX 2. Rotational symmetry ERP 3. Draw lines of symmetry JU7 4. Count lines of symmetry M7U
Lesson 14-9: Dilations	1. Dilations: graph the image ZRD 2. Dilations: find the coordinates 5KZ

Chapter 15

Circles

Textbook section

IXL skills

Lesson 15-1: Circles and Circumference

Lesson 15-2: Arcs and Chords

1. Parts of a circle 4X2
2. Central angles and arc measures VZX
3. Arc length 7L9
4. Circle measurements: mixed review TFF
5. Arcs and chords P63

Lesson 15-3: Tangents

1. Tangent lines CFV
2. Construct a tangent line to a circle JSH

Lesson 15-4: Equations of Circles

1. Write equations of circles in standard form from graphs 8HJ
2. Write equations of circles in standard form using properties EXA
3. Graph circles from equations in standard form GVH
4. Graph circles from equations in general form 2AU