



# IXL Skill Alignment

Geometry alignment for Glencoe High School Math



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# Chapter 0

## Preparing for Geometry

Textbook section	IXL skills
<b>0.1:</b> Changing Units of Measure Within Systems	1. Estimate metric measurements H9J 2. Convert rates and measurements: customary units LSC 3. Convert rates and measurements: metric units XZD
<b>0.2:</b> Changing Units of Measure Between Systems	1. Convert between customary and metric systems 2J8
<b>0.3:</b> Simple Probability	1. Theoretical and experimental probability 2L5
<b>0.4:</b> Algebraic Expressions	1. Evaluate variable expressions involving integers CJM
<b>0.5:</b> Linear Equations	1. Solve linear equations PHF
<b>0.6:</b> Linear Inequalities	1. Solve linear inequalities K45
<b>0.7:</b> Ordered Pairs	1. Coordinate plane review ZMF 2. Graph triangles and quadrilaterals 26C
<b>0.8:</b> Systems of Linear Equations	1. Solve systems of linear equations 76G
<b>0.9:</b> Square Roots and Simplifying Radicals	1. Simplify radical expressions QW6

# Chapter 1

## Tools of Geometry

Textbook section	IXL skills
<b>1.1:</b> Points, Lines, and Planes	<ol style="list-style-type: none"><li>Properties of planes, lines, and points SVU</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Describe intersections in a plane BD6</li></ul>
<b>1.2:</b> Line Segments and Distance	<ol style="list-style-type: none"><li>Lengths of segments on number lines JSD</li><li>Additive property of length 7RA</li><li>Distance formula 59F</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Congruent line segments 6W6</li><li>Construct a congruent segment LRJ</li></ul>
<b>1.3:</b> Locating Points and Midpoints	<ol style="list-style-type: none"><li>Midpoints 7RH</li><li>Midpoint formula: find the midpoint 2YG</li><li>Partition a line segment in a given ratio J42</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Midpoint formula: find the endpoint EUW</li><li>Construct the midpoint or perpendicular bisector of a segment HDT</li></ul>
<b>1.4:</b> Angle Measure	<ol style="list-style-type: none"><li>Angle vocabulary 9U2</li><li>Angle measures BCQ</li><li>Classify angles VLH</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Find lengths and measures of bisected line segments and angles YQW</li><li>Construct a congruent angle F7V</li><li>Construct an angle bisector FHL</li></ul>

**1.5: Angle Relationships**

1. Identify complementary, supplementary, vertical, adjacent, and congruent angles 7P7
2. Find measures of complementary, supplementary, vertical, and adjacent angles VZU
3. Angle diagrams: solve for the variable AKB

*Also consider*

- Construct a perpendicular line BZR

**1.6: Two-Dimensional Figures**

1. Polygon vocabulary KHQ
2. Perimeter and area of rectangles and squares SHC
3. Area and circumference of circles ZDX

*Also consider*

- Area and perimeter in the coordinate plane I QWZ
- Area and perimeter in the coordinate plane II MHQ

**1.7: Transformations in the Plane**

1. Reflection, rotation, and translation F2E
2. Translations: find the coordinates F8U
3. Reflections: find the coordinates SVY
4. Rotations: find the coordinates ZX5

**1.8: Three-Dimensional Figures**

1. Parts of three-dimensional figures VW9
2. Three-dimensional figure vocabulary NKH

**1.9: Two-Dimensional Representations of Three-Dimensional Figures**

1. Front, side, and top views of irregular figures 7VV
2. Nets of three-dimensional figures 6BF

**1.10: Precision and Accuracy**

1. Precision M5E
2. Greatest possible error FLJ
3. Percent error FBC

*Also consider*

- Percent error: area and volume R9U

**Checkpoint opportunity**

1. Checkpoint: Definitions of geometric objects 2JF
  2. Checkpoint: Partition a line segment U7H
  3. Checkpoint: Area and perimeter in the coordinate plane 9VT
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# Chapter 2

## Logical Arguments and Line Relationships

Textbook section	IXL skills
<b>2.1:</b> Conjectures and Counterexamples	<ol style="list-style-type: none"><li>Number sequences PL9</li><li>Shape patterns JJA</li><li>Counterexamples 2GJ</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Make predictions with scatter plots 55Y</li></ul>
<b>2.2:</b> Statements, Conditionals, and Biconditionals	<ol style="list-style-type: none"><li>Conditionals VU9</li><li>Converses, inverses, and contrapositives N5P</li><li>Biconditionals Q6E</li><li>Truth values JUU</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Negations VBY</li><li>Identify hypotheses and conclusions 7FW</li><li>Truth tables 6FJ</li></ul>
<b>2.3:</b> Deductive Reasoning	
<b>2.4:</b> Writing Proofs	<ol style="list-style-type: none"><li>Properties of equality 6KC</li><li>Solve linear equations: complete the solution 9W4</li></ol>
<b>2.5:</b> Proving Segment Relationships	
<b>2.6:</b> Proving Angle Relationships	<ol style="list-style-type: none"><li>Proofs involving angles HV9</li></ol>
<b>2.7:</b> Parallel Lines and Transversals	<ol style="list-style-type: none"><li>Transversals: name angle pairs V85</li><li>Transversals of parallel lines: find angle measures WB9</li><li>Transversals of parallel lines: solve for x RSV</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Identify parallel, intersecting, and skew lines and planes QZD</li></ul>

- Transversals of parallel lines: prove angle relationships 6QF
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**2.8: Slope and Equations of Lines**

1. Slopes of lines V2T
2. Equations of lines Q98
3. Slopes of parallel and perpendicular lines 6K2
4. Equations of parallel and perpendicular lines VEB

*Also consider*

- Graph a linear equation VUT
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**2.9: Proving Lines Parallel**

1. Transversals: prove lines are parallel WFL

*Also consider*

- Construct parallel lines 6EB
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**2.10: Perpendiculars and Distance**

1. Find the distance between a point and a line GWC
  2. Find the distance between two parallel lines A7B
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# Chapter 3

## Rigid Transformations and Symmetry

Textbook section	IXL skills
<b>3.1:</b> Reflections	1. Reflections: graph the image SM9
<b>3.2:</b> Translations	1. Translations: graph the image 7AC 2. Translations: write the rule 9PR
<b>3.3:</b> Rotations	1. Rotate polygons about a point XM7 2. Rotations: graph the image 6SD 3. Reflections and rotations: write the rule DMC
<b>3.4:</b> Compositions of Transformations	1. Glide reflections: graph the image KSS 2. Sequences of congruence transformations: graph the image WHW 3. Sequences of congruence transformations: find the rules GFH  <i>Also consider</i> <ul style="list-style-type: none"><li>Congruence transformations: mixed review XQ7</li></ul>
<b>3.5:</b> Symmetry	1. Count lines of symmetry M7U 2. Rotational symmetry ERP 3. Transformations that carry a polygon onto itself RJW  <i>Also consider</i> <ul style="list-style-type: none"><li>Line symmetry WBX</li><li>Draw lines of symmetry JU7</li></ul>
<b>Checkpoint opportunity</b>	1. Checkpoint: Transformations of geometric figures D5L

# Chapter 4

## Triangles and Congruence

Textbook section	IXL skills
<b>4.1:</b> Angles of Triangles	1. Triangle Angle-Sum Theorem UBU 2. Exterior Angle Theorem TGK 3. Proofs involving triangles I G78
<b>4.2:</b> Congruent Triangles	1. Congruence statements and corresponding parts CYL 2. Solve problems involving corresponding parts WYB
<b>4.3:</b> 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
<b>4.4:</b> Proving Triangles Congruent - ASA, AAS	1. ASA and AAS Theorems N94 2. Proving triangles congruent by ASA and AAS 23Z
	<i>Also consider</i> <ul style="list-style-type: none"> <li>• SSS, SAS, ASA, and AAS Theorems LER</li> <li>• Proving triangles congruent by SSS, SAS, ASA, and AAS SZL</li> <li>• Proofs involving corresponding parts of congruent triangles AKL</li> </ul>
<b>4.5:</b> Proving Right Triangles Congruent	1. Hypotenuse-Leg Theorem VQJ
<b>4.6:</b> Isosceles and Equilateral Triangles	1. Congruency in isosceles and equilateral triangles HPR 2. Proofs involving isosceles triangles V45
<b>4.7:</b> Triangles and Coordinate Proof	1. Classify triangles on the coordinate plane: justify your answer 5TN
<b>Checkpoint opportunity</b>	<b>Chapters 1-4</b> <ol style="list-style-type: none"> <li>1. Checkpoint: Rigid motion and congruence H9L</li> </ol>

# Chapter 5

## Relationships in Triangles

Textbook section	IXL skills
<b>5.1:</b> Bisectors of Triangles	<ol style="list-style-type: none"><li>Perpendicular Bisector Theorem BKS</li><li>Angle bisectors 68E</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Construct the circumcenter or incenter of a triangle EC6</li></ul>
<b>5.2:</b> Medians and Altitudes of Triangles	<ol style="list-style-type: none"><li>Identify medians, altitudes, angle bisectors, and perpendicular bisectors JWN</li><li>Find the centroid of a triangle P9S</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Construct the centroid or orthocenter of a triangle X8X</li></ul>
<b>5.3:</b> Inequalities in One Triangle	<ol style="list-style-type: none"><li>Exterior Angle Inequality YQA</li><li>Angle-side relationships in triangles ZN8</li></ol>
<b>5.4:</b> Indirect Proof	
<b>5.5:</b> The Triangle Inequality	<ol style="list-style-type: none"><li>Triangle Inequality Theorem BW7</li></ol>
<b>5.6:</b> Inequalities in Two Triangles	
<b>Checkpoint opportunity</b>	<b>Chapters 1-5</b> <ol style="list-style-type: none"><li>Checkpoint: Line and angle theorems SXW</li></ol>

# Chapter 6

## Quadrilaterals

Textbook section	IXL skills
<b>6.1:</b> Angles of Polygons	<ol style="list-style-type: none"><li>1. Interior angles of polygons SZF</li><li>2. Exterior angles of polygons MQ7</li><li>3. Review: interior and exterior angles of polygons 6VG</li></ol>
<b>6.2:</b> Parallelograms	<ol style="list-style-type: none"><li>1. Properties of parallelograms LLK</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Find missing angles in quadrilaterals 6V4</li></ul>
<b>6.3:</b> Tests for Parallelograms	<ol style="list-style-type: none"><li>1. Proving a quadrilateral is a parallelogram H89</li></ol>
<b>6.4:</b> Special Parallelograms: Rectangles	<ol style="list-style-type: none"><li>1. Properties of rectangles Y6J</li></ol>
<b>6.5:</b> Special Parallelograms: Rhombi, Squares	<ol style="list-style-type: none"><li>1. Properties of rhombuses and squares ZTA</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Graph quadrilaterals M5F</li></ul>
<b>6.6:</b> Trapezoids and Kites	<ol style="list-style-type: none"><li>1. Properties of trapezoids UC9</li><li>2. Properties of kites LZ9</li><li>3. Classify quadrilaterals on the coordinate plane: justify your answer 89F</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Review: properties of quadrilaterals Q2R</li><li>• Proofs involving triangles and quadrilaterals V7W</li><li>• Proofs involving quadrilaterals P77</li><li>• Classify quadrilaterals I 86L</li><li>• Classify quadrilaterals II MVK</li></ul>
<b>Checkpoint opportunity</b>	<ol style="list-style-type: none"><li>1. Checkpoint: Parallelogram theorems F5J</li></ol>

# Chapter 7

## Similarity

Textbook section	IXL skills
<b>7.1:</b> Dilations	<ol style="list-style-type: none"><li>1. Dilations: find the scale factor ZDM</li><li>2. Dilations: graph the image ZRD</li><li>3. Dilations: find the coordinates 5KZ</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Dilations: find the scale factor and center of the dilation VKY</li><li>• Dilations: find length, perimeter, and area WLC</li><li>• Dilations and parallel lines G76</li></ul>
<b>7.2:</b> Similar Polygons	<ol style="list-style-type: none"><li>1. Similarity statements UG8</li><li>2. Side lengths and angle measures in similar figures E2K</li><li>3. Perimeters of similar figures 9T8</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Identify similar figures 85X</li><li>• Similarity ratios BT7</li></ul>
<b>7.3:</b> Similar Triangles: AA Similarity	<ol style="list-style-type: none"><li>1. Angle-angle criterion for similar triangles UN6</li><li>2. Similar triangles and indirect measurement JWK</li></ol>
<b>7.4:</b> Similar Triangles: SSS and SAS Similarity	<ol style="list-style-type: none"><li>1. Similarity rules for triangles XJQ</li><li>2. Prove similarity statements ETX</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Similar triangles and similarity transformations G2Z</li><li>• Prove proportions or angle congruences using similarity DDY</li></ul>
<b>7.5:</b> Parallel Lines and Proportional Parts	<ol style="list-style-type: none"><li>1. Triangle Proportionality Theorem 6WA</li><li>2. Midsegments of triangles 8GT</li><li>3. Proofs involving triangles II DUQ</li></ol>

## 7.6: Parts of Similar Triangles

### Checkpoint opportunity

### Chapter 7

1. Checkpoint: Dilations 8C6
2. Checkpoint: Similarity transformations 54T

### Chapters 1-7

3. Checkpoint: Transformations in the plane MPY
4. Checkpoint: Triangle theorems PN5
5. Checkpoint: Parallel and perpendicular lines JR9

# Chapter 8

## Right Triangles and Trigonometry

Textbook section	IXL skills
<b>8.1:</b> Geometric Mean	1. Similarity and altitudes in right triangles CE7  <i>Also consider</i> <ul style="list-style-type: none"><li>Proofs involving similarity in right triangles XCT</li></ul>
<b>8.2:</b> The Pythagorean Theorem and Its Converse	1. Pythagorean theorem F55 2. Converse of the Pythagorean theorem NCK 3. Pythagorean Inequality Theorems PZ7  <i>Also consider</i> <ul style="list-style-type: none"><li>Prove the Pythagorean theorem JGT</li><li>Distance to the origin in three dimensions E92</li></ul>
<b>8.3:</b> Special Right Triangles	1. Special right triangles LDM
<b>8.4:</b> Trigonometry	1. Trigonometric ratios: sin, cos, and tan D5Z 2. Trigonometric ratios: find a side length UZC 3. Trigonometric ratios: find an angle measure 49E  <i>Also consider</i> <ul style="list-style-type: none"><li>Find trigonometric functions of special angles BP9</li><li>Find trigonometric functions using a calculator UK6</li><li>Inverses of trigonometric functions TBB</li><li>Trigonometric ratios in similar right triangles 7X7</li><li>Sine and cosine of complementary angles KMH</li><li>Trigonometric ratios: csc, sec, and cot L8J</li></ul>
<b>8.5:</b> Angles of Elevation and Depression	1. Solve a right triangle GPR

**8.6: The Law of Sines**

1. Area of a triangle: sine formula AR9
2. Law of Sines ZEL

*Also consider*

- Area of a triangle: Law of Sines 8T8

**8.7: The Law of Cosines**

1. Law of Cosines 24X
2. Solve a triangle REQ

**Checkpoint opportunity****Chapter 8**

1. Checkpoint: Right triangle trigonometry 45J
2. Checkpoint: Laws of Sines and Cosines 6L6

**Chapters 1-8**

3. Checkpoint: Triangle similarity and congruence 5MD

# Chapter 9

## Circles

Textbook section	IXL skills
<b>9.1:</b> Circles and Circumference	<ol style="list-style-type: none"><li>Parts of a circle: radii, diameters, and chords <a href="#">UEX</a></li><li>Circumference of circles <a href="#">RZN</a></li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Similarity of circles <a href="#">NEP</a></li></ul>
<b>9.2:</b> Measuring Angles and Arcs	<ol style="list-style-type: none"><li>Central angles and arc measures <a href="#">VZX</a></li><li>Arc length <a href="#">7L9</a></li><li>Radians and arc length <a href="#">N8Y</a></li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Parts of a circle <a href="#">ZEZ</a></li><li>Convert between radians and degrees <a href="#">NJ9</a></li></ul>
<b>9.3:</b> Arcs and Chords	<ol style="list-style-type: none"><li>Arcs and chords <a href="#">P63</a></li></ol>
<b>9.4:</b> Inscribed Angles	<ol style="list-style-type: none"><li>Inscribed angles <a href="#">98U</a></li><li>Angles in inscribed right triangles <a href="#">6DL</a></li><li>Angles in inscribed quadrilaterals I <a href="#">24Y</a></li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Angles in inscribed quadrilaterals II <a href="#">2Y5</a></li></ul>
<b>9.5:</b> Tangents	<ol style="list-style-type: none"><li>Tangent lines <a href="#">CFV</a></li><li>Construct a tangent line to a circle <a href="#">JSH</a></li><li>Perimeter of polygons with an inscribed circle <a href="#">UJT</a></li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Construct the inscribed or circumscribed circle of a triangle <a href="#">8VS</a></li><li>Construct an equilateral triangle inscribed in a circle <a href="#">RBF</a></li><li>Construct a square inscribed in a circle <a href="#">WEH</a></li></ul>

- Construct a regular hexagon inscribed in a circle MCM

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**9.6: Secants, Tangents, and Angle Measures**

1. Angles formed by chords, secants, and tangents ZN9

*Also consider*

- Segments formed by chords, secants, and tangents HPE

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**9.7: 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 general form 2AU

*Also consider*

- Determine if a point lies on a circle 4D2
- Convert equations of circles from general to standard form YM5
- Solve a system of linear and quadratic equations: circles WNN

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**9.8: Equations of Parabolas**

1. Write equations of parabolas in vertex form using properties B7J
2. Graph parabolas LKP

*Also consider*

- Find the focus or directrix of a parabola TD6
- Write equations of parabolas in vertex form from graphs NHB
- Find properties of a parabola from equations in general form A88

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**Checkpoint opportunity**

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**Chapter 9**

1. Checkpoint: Prove circles are similar GXP
2. Checkpoint: Angles and lines in circles T95
3. Checkpoint: Inscribed and circumscribed circles DCT
4. Checkpoint: Equations of circles M2P
5. Checkpoint: Equations of parabolas V6B

## Chapters 1-9

- 6. Checkpoint: Geometric constructions PQG
  - 7. Checkpoint: Coordinate proofs 26X
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# Chapter 10

## Extending Area

Textbook section	IXL skills
<b>10.1:</b> Areas of Parallelograms and Triangles	<ol style="list-style-type: none"><li>Area of parallelograms and triangles JTR</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Understanding area of a parallelogram 5H8</li><li>Understanding area of a triangle URS</li><li>Heron's formula KU2</li></ul>
<b>10.2:</b> Areas of Trapezoids, Rhombi, and Kites	<ol style="list-style-type: none"><li>Area of trapezoids MP6</li><li>Area of rhombuses 8WQ</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Understanding area of a trapezoid S7H</li></ul>
<b>10.3:</b> Areas of Circles and Sectors	<ol style="list-style-type: none"><li>Area of circles NKL</li><li>Area of sectors XZQ</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Understand arc length and sector area of a circle UGV</li></ul>
<b>10.4:</b> Areas of Regular Polygons and Composite Figures	<ol style="list-style-type: none"><li>Area of regular polygons R73</li><li>Area of compound figures KHG</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Area between two shapes SB6</li></ul>
<b>10.5:</b> Area and Nonrigid Transformations	<ol style="list-style-type: none"><li>Areas of similar figures 2BA</li><li>Perimeter and area: changes in scale ETV</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Area and perimeter of similar figures 6J7</li></ul>
<b>10.6:</b> Surface Area	<ol style="list-style-type: none"><li>Surface area of prisms and cylinders SWV</li><li>Surface area of pyramids and cones 8WX</li></ol>

## Checkpoint opportunity

## Chapters 1-10

1. Checkpoint: Arc length and area of sectors 57A

# Chapter 11

## Extending Volume

Textbook section	IXL skills
<b>11.1:</b> Cross Sections and Solids of Revolution	1. Cross sections of three-dimensional figures 7Z4 2. Solids of revolution LKT
<b>11.2:</b> Volumes of Prisms and Cylinders	1. Volume of prisms and cylinders N5F 2. Volume of compound figures 2SB
<b>11.3:</b> Volumes of Pyramids and Cones	1. Volume of pyramids and cones 7J3
<b>11.4:</b> Spheres	1. Surface area of spheres TGF 2. Volume of spheres 62N
<b>11.5:</b> Spherical Geometry	
<b>11.6:</b> Volume and Nonrigid Transformations	1. Similar solids: find the missing length UT7 2. Surface area and volume of similar solids N9X
<b>11.7:</b> Applying Measurements	1. Calculate density, mass, and volume YKJ
<b>Checkpoint opportunity</b>	<b>Chapter 11</b> 1. Checkpoint: Cross sections and solids of revolution PYM 2. Checkpoint: Volume WY6 3. Checkpoint: Density BDY <b>Chapters 1-11</b> 4. Checkpoint: Geometric modeling and design T92

# Chapter 12

## Probability

Textbook section	IXL skills
<b>12.1:</b> Representing Sample Spaces	1. Outcomes of compound events 82S 2. Counting principle NMP
<b>12.2:</b> Probability and Counting	1. Probability of simple events and opposite events HEC
<b>12.3:</b> Probability with Permutations and Combinations	1. Permutations 2A8 2. Permutation and combination notation YXM 3. Find probabilities using combinations and permutations C56
<b>12.4:</b> Geometric Probability	1. Geometric probability KBK
<b>12.5:</b> Probability and the Multiplication Rule	1. Identify independent and dependent events GW9 2. Probability of independent and dependent events PJZ 3. Identify independent events 5P6
<b>12.6:</b> Probability and the Addition Rule	1. Probability of mutually exclusive events and overlapping events VS6 2. Find probabilities using the addition rule UKV
<b>12.7:</b> Conditional Probability	1. Find conditional probabilities NPS 2. Independence and conditional probability JR7  <i>Also consider</i> <ul style="list-style-type: none"><li>• Probability: mixed review BLS</li></ul>
<b>12.8:</b> Two-Way Frequency Tables	1. Find probabilities using two-way frequency tables TU9 2. Find conditional probabilities using two-way frequency tables A6N  <i>Also consider</i> <ul style="list-style-type: none"><li>• Create relative frequency tables 2WH</li></ul>

**Checkpoint opportunity**

1. Checkpoint: Understand independence and conditional probability DMD
  2. Checkpoint: Probabilities of compound events Z8J
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