



IXL Skill Alignment

Geo alignment for Eureka Math Common Core Curriculum

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Module 1

Congruence, Proof, and Constructions

Textbook section	IXL skills
Topic A: Basic Constructions	B.10 Construct the midpoint or perpendicular bisector of a segment >>
	C.6 Construct an angle bisector >>
	D.2 Construct a perpendicular line >>
	G.5 Construct an equilateral triangle or regular hexagon >>
	M.6 Construct the circumcenter or incenter of a triangle >>
Topic B: Unknown Angles	C.4 Find measures of complementary, supplementary, vertical, and adjacent angles >>
	D.4 Transversals of parallel lines: find angle measures >>
	D.6 Proofs involving parallel lines I >>
	D.7 Proofs involving parallel lines II >>
	F.2 Triangle Angle-Sum Theorem >>
	F.3 Exterior Angle Theorem >>
	M.8 Proofs involving triangles I >>
	<i>See also:</i>
	C.3 Identify complementary, supplementary, vertical, adjacent, and congruent angles >>
	C.8 Proofs involving angles >>
D.3 Transversals: name angle pairs >>	
Topic C: Transformations/Rigid Motions	D.6 Proofs involving parallel lines I >>
	D.7 Proofs involving parallel lines II >>
	L.7 Rotate polygons about a point >>
	O.3 Draw lines of symmetry >>
	O.4 Count lines of symmetry >>
	<i>See also:</i>
L.1 Classify congruence transformations >>	
L.2 Translations: graph the image >>	

Topic D: Congruence

- K.1** [SSS and SAS Theorems >>](#)
- K.2** [Proving triangles congruent by SSS and SAS >>](#)
- K.3** [ASA and AAS Theorems >>](#)
- K.4** [Proving triangles congruent by ASA and AAS >>](#)
- K.7** [Proving triangles congruent by SSS, SAS, ASA, and AAS >>](#)
- K.8** [Proofs involving corresponding parts of congruent triangles >>](#)
- K.10** [Proofs involving isosceles triangles >>](#)

See also:

- J.1** [Congruence statements and corresponding parts >>](#)
- K.5** [SSS, SAS, ASA, and AAS Theorems >>](#)

Topic E: Proving Properties of Geometric Figures

- N.11** [Proofs involving quadrilaterals I >>](#)
- N.12** [Proofs involving quadrilaterals II >>](#)

Topic F: Advanced Constructions
Topic G: Axiomatic Systems

- C.4** [Find measures of complementary, supplementary, vertical, and adjacent angles >>](#)
- D.4** [Transversals of parallel lines: find angle measures >>](#)
- F.2** [Triangle Angle-Sum Theorem >>](#)
- F.3** [Exterior Angle Theorem >>](#)
- K.2** [Proving triangles congruent by SSS and SAS >>](#)
- K.4** [Proving triangles congruent by ASA and AAS >>](#)
- K.7** [Proving triangles congruent by SSS, SAS, ASA, and AAS >>](#)
- K.8** [Proofs involving corresponding parts of congruent triangles >>](#)
- K.9** [Congruency in isosceles and equilateral triangles >>](#)
- K.10** [Proofs involving isosceles triangles >>](#)
- N.4** [Properties of parallelograms >>](#)

See also:

- C.5** [Angle bisectors >>](#)

Module 2

Similarity, Proof, and Trigonometry

Textbook section	IXL skills
Topic A: Scale Drawings	P.10 Triangle Proportionality Theorem >>
Topic B: Dilations	L.3 Translations: find the coordinates >>
	L.4 Translations: write the rule >>
	L.6 Reflections: find the coordinates >>
	L.9 Rotations: find the coordinates >>
Topic C: Similarity and Dilations	P.5 Similar triangles and indirect measurement >>
	P.7 Similarity rules for triangles >>
	P.12 Prove similarity statements >>
	<i>See also:</i>
	P.1 Similarity ratios >> P.2 Similarity statements >>
Topic D: Applying Similarity to Right Triangles	P.15 Prove the Pythagorean theorem >>
	Q.1 Pythagorean Theorem >>
	Q.4 Special right triangles >>
Topic E: Trigonometry	R.1 Trigonometric ratios: sin, cos, and tan >>
	R.8 Trigonometric ratios: find a side length >>
	R.9 Trigonometric ratios: find an angle measure >>
	R.10 Solve a right triangle >>
	R.11 Law of Sines >>
	R.12 Law of Cosines >>
	<i>See also:</i>
	R.6 Find trigonometric functions using a calculator >>

Module 3

Similarity, Proof, and Trigonometry

Textbook section	IXL skills
Topic D: Applying Similarity to Right Triangles	Q.2 Converse of the Pythagorean theorem >>
Topic A: Area	P.11 Areas of similar figures >> S.8 Area of compound figures >> S.9 Area between two shapes >> <i>See also:</i> S.7 Area and circumference of circles >> S.10 Area and perimeter of similar figures >>
Topic B: Volume	D.1 Identify parallel, perpendicular, and skew lines and planes >> H.4 Cross-sections of three-dimensional figures >> H.5 Solids of revolution >> T.5 Volume of pyramids and cones >> T.6 Surface area and volume of spheres >> <i>See also:</i> T.4 Volume of prisms and cylinders >>

Module 4

Connecting Algebra and Geometry Through Coordinates

Textbook section	IXL skills
Topic A: Rectangular and Triangular Regions Defined by Inequalities	
Topic B: Perpendicular and Parallel Lines in the Cartesian Plane	E.5 Slopes of parallel and perpendicular lines >> E.6 Equations of parallel and perpendicular lines >>
Topic C: Perimeters and Areas of Polygonal Regions in the Cartesian Plane	S.5 Area and perimeter in the coordinate plane I >> S.6 Area and perimeter in the coordinate plane II >>
Topic D: Partitioning and Extending Segments and Parameterization of Lines	B.7 Midpoint formula - find the midpoint >> B.9 Distance formula >> E.7 Find the distance between a point and a line >>

Module 5

Circles With and Without Coordinates

Textbook section	IXL skills
Topic A: Central and Inscribed Angles	
Topic B: Arcs and Sectors	U.3 Arc measure and arc length >> U.4 Area of sectors >> U.9 Inscribed angles >>
Topic C: Secants and Tangents	U.7 Tangent lines >> U.13 Construct a tangent line to a circle >>
Topic D: Equations for Circles and Their Tangents	V.1 Find the center of a circle >> V.2 Find the radius or diameter of a circle >> V.3 Write equations of circles in standard form from graphs >> V.4 Write equations of circles in standard form using properties >> V.7 Graph circles from equations in standard form >>
Topic E: Cyclic Quadrilaterals and Ptolemy's Theorem	