

Illinois Model Curriculum Scope & Sequence

Math 3

Unit	Focus Standards	Connecting Standards	Approximate Time Frame
1) Statistics	<p>S.IC.1 (Making inferences on a random sample) (PBA/MYA), (EOY)</p> <p>S.IC.2 (Using simulations) (PBA/MYA), (EOY)</p> <p>S.IC.3 (Surveys, experiments, observational studies)(PBA/MYA), (EOY)</p> <p>S.IC.4 (Population mean and margin of error) (PBA/MYA), (EOY)</p> <p>S.IC.5 (Randomized experiments)(PBA/MYA), (EOY)</p> <p>S.IC.6 (Evaluate reports based on data)((PBA/MYA), (EOY)</p> <p>S.ID.6 (Represent and describe 2 variable data relationship)(PBA/MYA), (EOY)</p> <p>S.ID.4 (Fit a normal distribution) (PBA/MYA), (EOY)</p>		2-3 weeks
2) Geometric Proofs	<p>G.GPE.1 (Equation of a circle)(EOY)</p> <p>G.GPE.4 (Algebraic coordinate proofs)(PBA/MYA)</p> <p>G.GPE.5 (Slope with parallel and perpendicular lines)(PBA/MYA)</p> <p>G.GPE.6 (Partition a line segment)(PBA/MYA), (EOY)</p> <p>G.GPE.7 (Perimeter and area from coordinates)(PBA/MYA), (EOY)</p> <p>G.C.1 (Circle similarity) (EOY)</p> <p>G.C.2 (Angles, radii, and chords)(EOY)</p> <p>G.C.3 (Inscribed and circumscribed figures)(EOY)</p> <p>G.C.5 (Develop radian measure)(EOY)</p> <p>G.CO.12 (Geometric constructions)(PBA/MYA), (EOY)</p> <p>G.CO.13 (Geometric constructions in a circle)(PBA/MYA), (EOY)</p> <p>A.SSE.3 (Equivalent forms of expressions)(PBA/MYA), (EOY)</p>		4-5 weeks
3) Geometric Modeling	<p>G.MG.1 (Model objects)(EOY)</p> <p>G.MG.2 (Use density to model situations)(EOY)</p> <p>G.MG.3 (Use geometry to design) (EOY)</p> <p>G.GMD.4 (2-D to 3-D)(EOY)</p>		3-4 weeks
4) Representing Functions	<p>F.IF.4 (Interpret key features) (PBA/MYA), (EOY)</p> <p>F.IF.6 (Average rate of change)(PBA/MYA), (EOY)</p> <p>F.IF.7c (Key features of polynomials)(PBA/MYA), (EOY)</p> <p>F.IF.7e (Key features of exponential and logarithms)(PBA/MYA), (EOY)</p> <p>F.BF.3 (Transformations using k)(PBA/MYA), (EOY)</p> <p>F.TF.1 (Radian measure in a unit circle)(EOY)</p> <p>F.TF.2 (Trigonometric functions with real number domain)(PBA/MYA)</p>		2-3 weeks

Major Standards

Supporting Standards

Additional Standards

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<p>5) Polynomial and Rational: Representation and Modeling</p>	<p>A.SSE.2 (Rewrite expressions)(PBA/MYA), (EOY) A.CED.1 (Create rational equations and inequalities)(PBA/MYA), (EOY) A.CED.2 (Graph equations)(PBA/MYA) A.REI.1 (Solve equations)(PBA/MYA) A.REI.2 (Solve rational equations)(PBA/MYA), (EOY) A.REI.11 (Solve systems of equations)(PBA/MYA), (EOY) A.APR.2 (Remainder Theorem)(PBA/MYA), (EOY) A.APR.3 (Zeros and graphs of polynomials)(PBA/MYA), (EOY) A.APR.4 (Polynomial identities)(PBA/MYA) A.APR.6 (Rewrite rational expressions)(PBA/MYA), (EOY) N.Q.2 (Define quantities) S.ID.6a (Evaluate reports based on data)(PBA/MYA), (EOY) F.IF.4 (Interpret key features)(PBA/MYA), (EOY) F.IF.6 (Average rate of change)(PBA/MYA), (EOY) F.IF.7c (Graph polynomial functions; identify key features)(PBA/MYA), (EOY) F.IF.9 (Compare functions from different representations)(PBA/MYA), (EOY) F.BF.3 (Transformations using k) (PBA/MYA), (EOY) F.BF.4a (Inverse of a function)(PBA/MYA) G.GPE.2 (Equation of a parabola)(PBA/MYA)</p>		<p>5-6 weeks</p>
<p>6) Radicals, Logarithms and Exponents: Representations and Modeling</p>	<p>N.Q.2 (Define quantities) A.SSE.4 (Sum of a finite geometric series)(PBA/MYA), (EOY) A.CED.1 (Create exponential equations and inequalities)(PBA/MYA), (EOY) A.CED.2 (Graph equations)(PBA/MYA) A.REI.1 (Solve equations)(PBA/MYA) A.REI.2 (Solve radical equations)(PBA/MYA), (EOY) A.REI.11 (Solve systems of equations)(PBA/MYA), (EOY) F.IF.4 (Interpret key features)(PBA/MYA), (EOY) F.IF.6 (Average rate of change)(PBA/MYA), (EOY) F.IF.7e (Graph exponential and logarithmic functions; key features)(PBA/MYA), (EOY) F.IF.9 (Compare functions from different representations)(PBA/MYA), (EOY) F.BF.3 (Transformations using k)(PBA/MYA), (EOY) F.LE.4 (Express exponentials as logarithms) (EOY) S.ID.6a (Evaluate reports based on data)(PBA/MYA), (EOY)</p>		<p>5-6 weeks</p>

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7) Trigonometric: Representations and Modeling	<p>A.CED.1(Create equations and inequalities)(PBA/MYA), (EOY)</p> <p>A.CED.2(Graph equations)(PBA/MYA)</p> <p>A.REI.11(Solve systems of equations)(PBA/MYA), (EOY)</p> <p>A.SSE.2 (Rewrite expressions)(PBA/MYA), (EOY)</p> <p>F.IF.4(Interpret key features)(PBA/MYA), (EOY)</p> <p>F.IF.6(Average rate of change)(PBA/MYA), (EOY)</p> <p>F.IF.7e(Graph trigonometric functions)(PBA/MYA), (EOY)</p> <p>F.IF.9(Compare functions from different representations)(PBA/MYA)</p> <p>F.TF.1 (Radian measure in a unit circle)(EOY)</p> <p>F.TF.2(Trigonometric functions with real number domain)(PBA/MYA)</p> <p>F.TF.5 (Model with trigonometric functions)(EOY)</p> <p>F.TF.8(Pythagorean Identity)(PBA/MYA), (EOY)</p> <p>F.BF.3(Transformations using k)(PBA/MYA), (EOY)</p> <p>N.Q.2 (Define quantities)</p> <p>S.ID.6a(Evaluate reports based on data)(PBA/MYA), (EOY)</p>		<p>5-6 weeks</p>
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Major Standards

Supporting Standards

Additional Standards