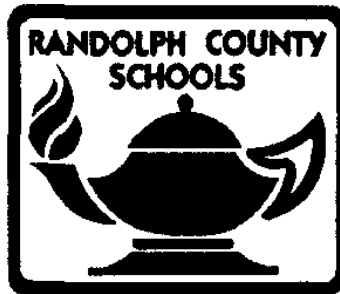


Math II

Pacing Guide



Math II Unit Sequencing

1. Exponents and Expressions
2. Polynomials
3. Quadratics
4. Solving Equations
5. Graphing
6. Systems
7. Constructions and Transformations
8. Triangle Congruency and Proofs
9. Right Triangles and Trigonometry
10. Three-Dimensional Figures and Cross Sections
11. Statistics and Probability

Math II Pacing

Day	Topic	CC Standard
1	Define terms, factors, and coefficients	A.SSE.1
2	Properties of Exponents	N.RN.2, A.SSE.3C
3	Rational Exponents	N.RN.2
4	Review	
5	Test	
6	Add/Subt polynomials	A.SSE.1A, A.SSE.1B, A.CED.1, A.CED.4
7	Multiplying polynomials	A.APR.1, A.CED.2, A.CED.4
8	Factor by GCF and grouping	A.APR.1, A.CED.4, A.SSE.2
9	Factoring quadratics	A.APR.1, A.CED.2, A.CED.3, A.CED.4, A.REI.11, F.IF.9, A.SSE.2, A.APR.3
10	Review	
11	Test	
12	Key features, Graphing, axis of symmetry/vertex	A.REI.4, A.APR.1, A.CED.1, A.REI.10, A.REI.11, F.LE.3, A.APR.3
13	Solve by quadratics by factoring and graphing	A.REI.7, A.APR.1, A.CED.1, A.CED.2, A.CED.3, A.CED.4, A.REI.4, A.REI.10, A.REI.11, F.IF.8A, A.SSE.2
14	Solve by completing the square	A.REI.4
15	Solve by quad form	A.REI.4
16	Model with quadratics	A.REI.10, A.CED.1, A.CED.3, A.CED.4, A.REI.10, F.IF.5, F.IF.8A, F.LE.3
17	Review	
18	Test	
19	Linear equations/ literal equations, Inverse Variation	F.BF.1, F.IF.2, F.IF.5, A.CED.1, A.CED.2, A.CED.4, F.BF.1A, F.IF.9
20	Absolute value equations and inequalities	A.CED.1, A.REI.10, A.CED.2, A.CED.4
21	Radical equations	A.REI.2
22	Rational equations	A.REI.2
23	Review	
24	Test	
25	Functions/Relations (include function notation)	F.IF.2, F.IF.5, A.REI.10, F.BF.1A
26	Graph linear and abs.val (include inequalities)	F.BF.1, F.BF.2, F.IF.5, F.IF.7, A.CED.1, A.CED.2, A.CED.4, F.BF.1A, F.BF.4, A.REI.10, F.IF.4
27	Graph square root/cube root	F.IF.7, F.IF.4
28	Inverse Functions	F.BF.4
29	Graph step and piece-wise functions	F.IF.7, A.CED.2, A.CED.3, A.REI.1, A.REI.11, F.IF.4
30	Parent Functions and Transformations	F.IF.5, F.BF.3
31	Parent Functions and Transformations	F.IF.5, F.BF.3
32	Review	
33	Test	
34	Solve systems by graphing	A.CED.2, A.CED.3, A.REI.11
35	Solve systems of inequalities by graphing (mention constraints)	A.CED.2, A.CED.3, A.REI.11

36	Linear Programming (given constraints)	A.CED.3, A.REI.11, F.IF.7B
37	Linear Programming (real-world application)	A.CED.3, A.REI.1, A.REI.11, F.IF.7B
38	Systems of quadratic and linear equations	A.REI.10, A.CED.2, A.CED.3, A.CED.4, A.REI.4, A.REI.11, F.IF.8A
39	Review	
40	Test	
41	Foundations of Geometry (1.2 in Geo book-undefined terms, collinear, coplanar, congruence, naming lines and planes, etc...)	G.CO.1
42	Divide segments into given ratios	G.GPE.6
43	Constructions (mathopenref.com)	G.CO.13
44	Introduction to Transformations (basic terminology, rigid vs. non-rigid)	G.CO.6
45	Translations/Dilations	G.CO.2,4,5,6, G.SRT.1
46	Reflections	G.CO.2,4,5,6
47	Rotations	G.CO.2,3,4,5,6,7
48	Review	
49	Test	
50	Equilateral/Isosceles Triangles/Midsegment Thm	G.CO.10
51	SSS/SAS	G.CO.8, G.CO.10
52	AAS/ASA	G.CO.8, G.CO.10
53	HL/CPCTC	G.CO.8, G.CO.10
54	Fill in the blank proofs	G.CO.8, G.CO.10
55	Proofs	G.CO.8, G.CO.10
56	Review	
57	Test	
58	Pythagorean Theorem and its Converse	N.RN.2
59	SOHCAHTOA	G.SRT.6,7,8, N.RN.2
60	SOHCAHTOA	G.SRT.6,7,8, N.RN.2
61	SOHCAHTOA	G.SRT.6,7,8, N.RN.2
*	Trig area formula, Law of Sines/Cosine	G.SRT.9, G.SRT.11
62	Review	
63	Test	
64	Derive equation of circle using pyth thm	G.GPE.1
65	Cross sections/ Solids of Revolution/Euler's Formula	G.GMD.4
66	S.A. of Prisms and Cylinders	G.MG.1
67	S.A. of Pyramids and Cones	G.MG.1
68	Volume of above	G.MG.1
69	Surface Area and Volume of Spheres	G.MG.1
*	Application problems	G.MG.2, G.MG.3
70	Review	
71	Test	
72	Intro to stats (basic definitions, different ways of representing data)	S.IC.2, S.IC.6
73	Central Tendency, Spread, Variance	S.IC.2
74	SEXYSC- linear, quad, exp	S.IC.2
75	Venn Diagrams and Set Theory	S.CP.1
76	Theoretical and Experimental Probability	S.CP.1, S.CP.4
77	Probability Distribution and Frequency Tables	S.CP.4, S.CP.5

78	Compound probability and Multiple Events	S.CP.7
79	Conditional Probability	S.CP.2-6
*	Permutations and Combinations	S.CP.9
*	Multiplication Rule in a Uniform Probability	S.CP.8
80	Review	
81	Test	
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Note:

- N.Q.1, N.Q.2, N.Q.3 are used throughout the semester.
- This is only a guide. Feel free to amend, adjust, or change.