

MATH FOCUS 8

Outline for Teaching/Assignments (Semestered School ~90 classes per semester)

CLASS #	SECTION & TITLE	RECOMMENDED PRACTISE QUESTIONS* (KQs are in bold)	ADDITIONAL ASSIGNMENT/ACTIVITY
CHAPTER 1: NUMBER RELATIONSHIPS (8 classes)			
1	Getting Started 1.1 Representing Square Numbers	1.1: entire exploration	
2	1.2 Recognizing Perfect Squares	1.2: 3,4,5,7, 8 ,10,14,15,16,17	
3	1.3 Square Roots of Perfect Squares	1.3: 3, 9, 11, 12, 13, 15 ,18,20	
4	1.4 Estimating Square Roots 1.5 Exploring Problems Involving Squares & Square Roots	1.4: 5, 8 , 9, 11, 12, 13, 16 1.5: entire exploration	Curious Math Mid Chapter Review
5	1.6 Pythagorean Theorem	1.6: 4, 5, 7 , 8, 10, 12, 13,14	Math Game
6	1.7 Solve Problems using Diagrams	1.7: 2, 5, 6 , 8	
7	Chapter Self-Test & Chapter Review		
8	Chapter Task		
CHAPTER 2: FRACTION OPERATIONS (11 classes)			
9	Getting Started 2.1 Multiplying a Whole Number by a Fraction	2.1: 3 , 5, 6, 8, 13, 16	
10	2.2 Exploring Calculating a Fraction of a Fraction 2.3 Multiplying Fractions	2.2: entire exploration 2.3: 5, 7 , 8, 10, 11, 18, 19	
11	2.4 Exploring Estimating Fraction Products 2.5 Multiplying Fractions Greater Than 1	2.4: entire exploration 2.5: 5 , 7, 8, 10 , 12, 14, 16	Mid Chapter Review

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12	2.6 Dividing Fractions by Whole Numbers	2.6: 4, 6, 9 , 11	
13	2.7 Estimating Fraction Quotients	2.7: 3, 5, 6 , 7, 10, 13	
14	2.8 Dividing Fractions by Measuring	2.8: 6 , 10, 11-13, 16	Curious Math
15	2.9 Dividing Fractions Using a Related Multiplication	2.9: 5 , 8, 9, 14, 17	Math Game
16	2.10 Order of Operations	2.10: 4, 7, 9 , 13	
17	2.11 Communicate about Multiplication and Division	2.11: 4, 8 , 9	
18	Chapter Self-Test & Chapter Review		
19	Chapter Task		
CHAPTER 3: RATIOS AND RATES (7 classes)			
20	Getting Started 3.1 Using Two-Term Ratios	3.1: 4, 6, 7, 9 , 12, 15, 17	
21	3.2 Using Ratio Tables	3.2: 2, 4 -6, 9	Math Game
22	3.3 Exploring Ratios with Three Terms	3.3: entire exploration	Mid Chapter Review
23	3.4 Using Rates 3.5 Communicate about Ratios and Rates	3.4: 3- 6 , 8, 11 3.5: 2 , 5, 6, 8	Curious Math
24	3.6 Using Equivalent Ratios to Solve Problems	3.6: 4, 5 , 7, 12, 13	
25	Chapter Self-Test & Chapter Review		
26	Chapter Task		
CHAPTER 4: PERCENTS (10 classes)			
27	Getting Started 4.1 Percents Greater than 100%	4.1: 4, 6, 10 , 14	
28	4.2 Fractional Percents	4.2: 3, 5 , 6, 10, 12	
29	4.3 Relating Percents to Decimals and Fractions	4.3: 4, 6 , 12, 14	
30	4.4 Solving Problems Using a Proportion	4.4: 3, 5, 8 , 9, 14	
31	4.5 Solving Percent Problems Using Decimals	4.5: 3, 5 , 7, 11, 13	Mid Chapter Review

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32	4.6 Solve Problems by Changing Your Point of View	4.6: 6, 7, 8	
33	4.7 Solving Percent Problems Using Fractions 4.8 Combining Percents	4.7: entire exploration 4.8: 2, 3, 4, 5, 7, 9	Math Game
34	4.9 Percent Change	4.9: 3, 7, 10, 13	Curious Math
35	Chapter Self-Test & Chapter Review		
36	Chapter Task		
CHAPTER 5: MEASUREMENT (9 classes)			
37	Getting Started 5.1 Exploring Nets	5.1: entire exploration	
38	5.2 Drawing the Nets of Prisms and Cylinders	5.2: 3, 4, 7, 9	
39	5.3 Determining the Surface Area of Prisms	5.3: 5, 8, 10, 12, 13	Curious Math
40	5.4 Determining the Surface Area of Cylinders	5.4: 2, 7, 10, 12	Mid Chapter Review
41	5.5 Determining the Volume of Prisms	5.5: 3-5, 7, 8, 12, 16	
42	5.6 Determining the Volume of Cylinders	5.6: 2, 5, 6, 10, 11, 12	
43	5.7 Solve Problems Using Models	5.7: 2, 4, 6, 10	Math Game
44	Chapter Self-Test & Chapter Review		
45	Chapter Task		
CHAPTER 6: INTEGERS (7 classes)			
46	Getting Started 6.1 Integer Multiplication	6.1: 3, 5-7, 11, 16, 17, 19	
47	6.2 Using Number Lines to Model Integer Multiplication	6.2: 9, 11, 15, 16	Mid Chapter Review
48	6.3 Exploring Uses of Integer Division 6.4 Integer Division	6.3: entire exploration 6.4: 8, 9, 11, 12, 16, 17	
49	6.5 Order of Operations	6.5: 4, 6, 10, 14	Curious Math
50	6.6 Communicate about Problem Solutions	6.6: 2, 7	Curious Math

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			Math Game
51	Chapter Self-Test & Chapter Review		
52	Chapter Task		
CHAPTER 7: TESSELLATIONS (7 classes)			
53	Getting Started 7.1 Exploring Tiling	7.1: entire exploration	
54	7.2 Tessellating with Regular Polygons 7.3 Tessellating with Quadrilaterals	7.2: 3, 5 7.3: 3, 6, 7	
55	7.4 Tessellating with Triangles	7.4: 3, 5	Math Game Mid Chapter Review
56	7.5 Tessellating by Combining Shapes 7.6 Tessellating Designs	7.5: 3, 4, 5 7.6: 3, 4, 5	
57	7.7 Exploring Tessellations in the Environment 7.8 Communicate about Tessellations	7.7: entire exploration 7.8: 2, 4	Curious Math
58	Chapter Self-Test & Chapter Review		
59	Chapter Task		
CHAPTER 8: DATA ANALYSIS (7 classes)			
60	Getting Started 8.1 Choosing a Graph to Display Data	8.1: entire exploration	
61	8.2 Changing the Format of a Graph	8.2: 4, 5, 6	
62	8.3 Communicate about Choosing a Graph	8.3: 3, 4, 5	Mid Chapter Review
63	8.4 Changing the Scale of a Graph	8.4: 2, 3, 6	
64	8.5 Recognizing Misleading Graphs	8.5: 4, 5	Curious Math Math Game
65	Chapter Self-Test & Chapter Review		

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66	Chapter Task		
CHAPTER 9: LINEAR RELATIONS AND LINEAR EQUATIONS (9 classes)			
67	Getting Started 9.1 Making a Table of Values	9.1: 3, 4, 5, 8 , 9	
68	9.2 Graphing Linear Relations	9.2: 2, 3, 5, 6, 8 , 10	
69	9.3 Exploring Possible Values 9.4 Drawing Diagrams to Represent Equations	9.3: entire exploration 9.4: 2, 3, 4, 5 , 6, 8	Mid Chapter Review
70	9.5 Solving Equations with Counter Models	9.5: 3, 4, 5 , 7, 8, 9, 11, 12	
71	9.6 Solving Equations Symbolically	9.6: 3, 4, 5, 7, 9 , 13	
72	9.7 Correcting Errors in Solutions	9.7: 2, 3, 4, 5, 6 , 8	Math Game
73	9.8 Solve Problems Using Logical Reasoning	9.8: 2, 4, 5 , 6	Curious Math
74	Chapter Self-Test & Chapter Review		
75	Chapter Task		
CHAPTER 10: PROBABILITY (5 classes)			
76	Getting Started 10.1 Exploring Independent Events 10.2 Probability of Independent Events	10.1: entire exploration 10.2: 5, 7 , 8	Curious Math
77	10.3 Using a Formula to Calculate Probability	10.3: 2, 5, 6 , 9	
78	10.4 Communicate about Probability	10.4: 3, 5 , 8	Math Game
79	Chapter Self-Test & Chapter Review		
80	Chapter Task		
CHAPTER 11: 3-D GEOMETRY (7 classes)			
81	Getting Started 11.1 Drawing Views of Cube Structures	11.1: 4, 7 , 8, 11	
82	11.2 Building Cube Structures from Views	11.2: entire exploration	

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	11.3 Creating Isometric Drawings	11.3: 2, 3, 4 , 8	Mid Chapter Review
83	11.4 Creating Cube Structures from Isometric Drawings	11.4: 2 , 3, 4	Curious Math
84	11.5 Rotating Cube Structures	11.5: 5 , 6, 8, 9	Math Game
85	11.6 Communicate about Views	11.6: 2, 3, 4 , 5	
86	Chapter Self-Test & Chapter Review		
87	Chapter Task		
FINAL REVIEW & EXAM (3 classes)			
88 &	Chapter 1-3 Cumulative Review		
89	Chapter 4-7 Cumulative Review Chapter 8-11 Cumulative Review		
90	Final Exam		

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**QUICK GLANCE AT SEMESTER
SEMESTER 1: SEPTEMBER - JANUARY**

September

Week 1	Chapter 1
Week 2	Chapter 1 /Chapter 2
Week 3	Chapter 2
Week 4	Chapter 2

October

Week 1	Chapter 3
Week 2	Chapter 3 / Chapter 4
Week 3	Chapter 4
Week 4	Chapter 4 /Chapter 5

November

Week 1	Chapter 5
Week 2	Chapter 6
Week 3	Chapter 6/ Chapter 7
Week 4	Chapter 7/ Chapter 8

December

Week 1	Chapter 8
Week 2	Chapter 9
Week 3	Vacation
Week 4	Vacation

January

Week 1	Chapter 9
Week 2	Chapter 10
Week 3	Chapter 11
Week 4	Chapter 11/ Final Review & Exam

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**QUICK GLANCE AT SEMESTER
SEMESTER 2: FEBRUARY - JUNE**

February

Week 1	Chapter 1
Week 2	Chapter 1/Chapter 2
Week 3	Chapter 2
Week 4	Chapter 2

March

Week 1	Chapter 3
Week 2	Chapter 3/ Chapter 4
Week 3	Spring Break
Week 4	Chapter 4

April

Week 1	Chapter 4/Chapter 5
Week 2	Chapter 5
Week 3	Chapter 6
Week 4	Chapter 6/ Chapter 7

May

Week 1	Chapter 7/ Chapter 8
Week 2	Chapter 8
Week 3	Chapter 9
Week 4	Chapter 9

June

Week 1	Chapter 10
Week 2	Chapter 11
Week 3	Chapter 11/ Final Review & Exam
Week 4	Admin Week

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