

Chapter 5: Modelling Periodic Functions

Chapter Overview Chart

SUGGESTED TIMING Functions and Relations: 17 h 30 min Functions: 21 h 15 min				
Section	Timing (min)		Materials/ Technology	Expectations
	Functions and Relations	Functions		
5.1 Periodic Phenomena, page 408	75	75	GP, ruler	TF4.01 TF4.04
5.2 <i>Skill Builder</i> : Understanding Angles, page 418	75	75		TF1.01
5.3 Trigonometric Functions, page 424	150	150	GP, ruler	TF1.01 TF2.06 TF3.01 TF3.05 TF3.06 TF4.01
5.4 Radian Measure, page 438	150	75	GP, ruler TI-83 Plus compasses for using with board or overhead	TF2.01 TF2.02 TF2.03 TF2.07 TF3.01 TF3.06 TF4.01 TF4.04
5.5 <i>Technology</i> : TI-83 Plus Calculator: Graphing Trigonometric Functions, page 445	30	30	TI-83 Plus	TF2.07 TF3.01 TF3.06 TF4.02
5.6 Investigating Transformations, page 447	150	150	GP ruler TI-83 Plus	TF2.07 TF3.02 TF3.03 TF3.04 TF4.01 TF4.02 TF4.03 TF4.04
5.7 Modelling Periodic Phenomena, page 460	105	150	GP TI-83 Plus	TF3.01 TF3.03 TF3.04 TF3.05 TF4.01 TF4.02 TF4.04
5.8 Solving Linear Trigonometric Equations, page 468	75	150	SC TI-83 Plus	TF2.06 TF2.07 TF3.05 TF4.04
5.9 <i>Technology</i> : TI-83 Plus Calculator: Using Sinusoidal Regression to Find the Curve of Best Fit, page 479	30	30	TI-83 Plus view screen	TF2.07 TF3.04 TF3.05 TF4.04
5.10 <i>Technology</i> : Using Digital Probes to Collect Periodic Data, page 481	75	150	CBR/L TI-83 Plus: Beats, Sound, and Hiker Programs, cables and connectors	TF2.07 TF3.03 TF3.04 TF3.05 TF4.01 TF4.02 TF4.04
BLM = Blackline Masters GP = Graph Paper SC = Scientific Calculator CBR/L = Calculator-Based Ranger/Laboratory GS = Graphing Software SS = Spreadsheet Software GSP = <i>The Geometer's Sketchpad</i> GC = Graphing Calculator TI-83 Plus = TI-83 Plus Calculator * Suggested Timing includes time for preview, additional activities, review and assessment.				
Check Your Understanding: Answers, p. 5-57 The Chapter Problem Questions and Answers, p. 5-60 Challenge 1 – Solution Guide and Rubric, p. 5-68 Challenge 2 – Solution Guide and Rubric, p. 5-71 Chapter 5 Test and Solutions, p. 5-74				