

Chapter 7U: Investigating Loci and Conics

Chapter Overview Chart

*SUGGESTED TIMING Functions and Relations: 30 h				
Section	Timing (min)		Materials/ Technology	Expectations
	Functions and Relations	Functions		
7.1U Introducing Locus Definitions, page 570	75		GSP, string compasses and rulers GP	LC1.01U, LC1.02U LC1.03U
7.2U Revisiting the Circle, page 577	75		compasses GP, GSP	LC1.01U, LC1.02U LC1.03U, LC1.04U LC1.05U, LC2.01U LC2.03U, LC2.04U LC2.05U, LC3.02U
7.3U Technology: TI-83 Plus Calculator: Graphing Circles, page 584	30		TI-83 Plus	LC2.04U, OC3.05 OC2.07
7.4U The Ellipse, page 585	75		string, tape, or tacks GP	LC1.03U, LC1.04U LC1.05U, LC2.01U LC3.02U
7.5U Exploration: Waxed-Paper Models, page 595	30		rectangles of waxed paper (about 10 cm by 15 cm), circles of waxed paper (about 10 cm to 15 cm in diameter), GSP	LC1.01U, LC1.02U LC1.04U
7.6U The Parabola, page 597	75		GP GC or GS	LC1.05U, LC2.01U LC2.02U, LC2.03U LC2.04U, LC2.05U LC3.01U, LC3.02U
7.7U Exploration: Reflective Properties of Conics, page 605	30		cardboard large GP marbles	LC1.04U, LC3.01U
7.8U Technology: Graphing Conics Using Technology, page 607	30		GS GC	LC2.01U, OC3.05
7.9U The Hyperbola, page 609	75		GSP GC or GS	LC1.04U, LC1.05U LC2.01U, LC2.03U LC2.04U, LC2.05U LC3.01U, LC3.02U
7.10U The General Form of Conics, page 618	75			LC2.02U, LC2.03U LC2.04U, LC3.02U
7.11U When Lines Meet Conics, page 623	75		GP or GS	LC2.04U, LC3.01U LC3.02U, LC3.03U
BLM = Blackline Masters CBR/L = Calculator-Based Ranger/Laboratory GSP = <i>The Geometer's Sketchpad</i> *Suggested Timing includes time for preview, additional activities, review, and assessment.				
GP = Graph Paper GS = Graphing Software GC = Graphing Calculator				
SC = Scientific Calculator SS = Spreadsheet Software TI-83 Plus = TI-83 Plus calculator				
Check Your Understanding: Answers, p. 7-45 The Chapter Problem Questions and Solutions, p. 7-47 Challenge 1 – Solution Guide and Rubric, p. 7-51 Challenge 2 – Solution Guide and Rubric, p. 7-53 Chapter 7 Test and Solutions, p. 7-55				