

CORE FOCUS ON FUNCTIONS & DATA

BLOCK 1 ~ INTRODUCTION TO FUNCTIONS

LESSON 1.1	UNDERSTANDING FUNCTIONS -----	3
	EXPLORE! DOG YEARS	
LESSON 1.2	EVALUATING FUNCTIONS -----	10
LESSON 1.3	TABLES, GRAPHS AND EQUATIONS -----	16
	EXPLORE! A PIECEWISE FUNCTION	
LESSON 1.4	FUNCTION TRANSLATIONS -----	21
	EXPLORE! SHIFTING GRAPHS	
LESSON 1.5	FUNCTION REFLECTIONS -----	26
	EXPLORE! MIRROR IMAGE	
LESSON 1.6	STRETCHING & SHRINKING FUNCTIONS -----	32
	EXPLORE! STRETCH AND SHRINK	
REVIEW	BLOCK 1 ~ INTRODUCTION TO FUNCTIONS -----	38

BLOCK 2 ~ EXPONENTIAL FUNCTIONS

LESSON 2.1	RECURSIVE ROUTINES -----	46
	EXPLORE! GROWING ALLOWANCE	
LESSON 2.2	WRITING EXPONENTIAL FUNCTIONS -----	52
	EXPLORE! FUTURE VALUES	
LESSON 2.3	GRAPHING EXPONENTIAL FUNCTIONS -----	57
	EXPLORE! INCREASE OR DECREASE	
LESSON 2.4	GROWTH AND DECAY -----	63
REVIEW	BLOCK 2 ~ EXPONENTIAL FUNCTIONS -----	69

BLOCK 3 ~ QUADRATIC FUNCTIONS

LESSON 3.1	QUADRATIC FUNCTIONS IN VERTEX FORM -----	77
LESSON 3.2	QUADRATIC FUNCTIONS IN GENERAL FORM -----	82
	EXPLORE! WHERE'S THE VERTEX?	
LESSON 3.3	QUADRATIC FUNCTIONS IN FACTORED FORM -----	87
	EXPLORE! FINDING ZEROS	
LESSON 3.4	CONVERTING TO GENERAL FORM -----	92
	EXPLORE! DOUBLE DISTRIBUTE	
LESSON 3.5	CONVERTING $x^2 + bx + c$ TO FACTORED FORM -----	97
	EXPLORE! NUMBER RIDDLES	

BLOCK 3 ~ QUADRATIC FUNCTIONS

LESSON 3.6	CONVERTING $ax^2 + bx + c$ TO FACTORED FORM -----	102
LESSON 3.7	COMPLETING THE SQUARE -----	107
	EXPLORE! MAKING IT PERFECT!	
LESSON 3.8	THE QUADRATIC FORMULA -----	111
REVIEW 3	QUADRATIC FUNCTIONS -----	116

BLOCK 4 ~ MEASURES OF CENTER

LESSON 4.1	MEASURES OF CENTER -----	125
	EXPLORE! MR. BOOKER'S CLASS	
LESSON 4.2	USING THE MEAN TO FIND DATA -----	130
LESSON 4.3	COMPLETING DATA SETS -----	135
	EXPLORE! FROG DATA	
LESSON 4.4	EFFECTS OF CHANGING DATA -----	140
	EXPLORE! CH-CH-CH-CHANGES	
LESSON 4.5	EFFECTS OF OUTLIERS ON DATA -----	145
	EXPLORE! OUTLIERS AND DATA	
LESSON 4.6	STRENGTHS AND LIMITATIONS OF DATA -----	150
	EXPLORE! COMPARING CELL PHONE COMPANIES	
LESSON 4.7	FIVE-NUMBER SUMMARIES OF DATA -----	154
LESSON 4.8	FINDING OUTLIERS -----	159
REVIEW	BLOCK 4 ~ MEASURES OF CENTER -----	164

BLOCK 5 ~ DATA DISPLAYS

LESSON 5.1	DOT PLOTS -----	172
	EXPLORE! TAKING THE PULSE OF THE CLASS	
LESSON 5.2	HISTOGRAMS -----	176
LESSON 5.3	ANALYZING HISTOGRAMS -----	183
	EXPLORE! PREDICTING FROM HISTOGRAMS	
LESSON 5.4	BOX-AND-WHISKER PLOTS -----	189
LESSON 5.5	ANALYZING BOX-AND-WHISKER PLOTS -----	195
	EXPLORE! VISUALIZING SKEW	
LESSON 5.6	CHOOSING APPROPRIATE DATA DISPLAYS -----	202
REVIEW	BLOCK 5 ~ DATA DISPLAYS -----	206