# Foundations for College Mathematics, Grade 11, College Preparation, Grade 11 (MBF3C)

## **Mathematical Models**

A1: Investigating Graphs and Equations of Quadratic Relations			
McGraw-Hill, Mathematics Applying the Concepts, Grade 10		Addison Wesley, Foundations of Mathematics, Grade 10	
Applied		Applied	
Chapter 8: Quadratic Functions		Chapter 7: From Algebra to Quadratic Equations	
8.1: Introduce Quadratic Functions	A1.1,	7.2: Common Factoring	A1.7
	A1.2		
8.2: Quadratic Functions of the Form $y = ax^2$	A1.1-	7.4: Multiplying Two Binomials	A1.5
	A1.4		
8.3: Quadratic Functions of the Form $y = x^2 + k$	A1.3,	7.5: Expanding and Simplifying Polynomial	A1.5
	A1.4	Expressions	
8.4: Quadratic Functions of the Form $y = (x-h)^2$	A1.3,	7.6: Factoring Trinomials of the Form $x^2 + bx + c$	A1.7
	A1.4		
8.5: Quadratic Functions of the Form $y = a(x-h)^2 + k$	A1.3,	7.7: Factoring a Difference of Squares	A1.7
	A1.4		
		7.8: Solving Quadratic Equations by Factoring	A1.9
			•
Chapter 9: Algebraic Expressions		Chapter 8: Analysing Quadratic Functions	
9.1: Multiply Two Binomials	A1.5	8.1: Transforming the Graph of $y = x^2$	A1.3,
			A1.4
9.2: Special Products	A1.5	8.2: Analysing the Graph of $y = a(x - p)^2 + q$	A1.3,
			A1.4
9.4: Common Factors	A1.7	8.3: Relating the Graphs of $y = ax^2 + bx + c$	A1.8,
		and $y = a(x - p)^2 + q$	A1.6
9.5: Factors of a Difference of Squares	A1.7	8.4: Applications of Quadratic Functions	A1.1,
			A.1.2
9.6: Factors of Trinomials of the Form $x^2 + bx + c$	A1.7	8.5: Mathematical Modelling: The Basketball	A1.1,
		Free Throw	A1.2
9.7: Solve Quadratic Equations by Factoring	A1.9		
		•	•
Chapter 10: Solve Problems: Quadratic Functions			
10.1: Relate Roots and Intercepts	A1.8,		
-	A1.9		
10.2: Standard and General Forms of A Quadratic Functions	A1.6,		
	A1.9		

A2: Understanding Exponential Growth and Decay				
A3: Investigation of Graphs and Equations of Exponential Relations				
	Addison Wesley, Mathematics of Personal Finance 11			
	Chapter 3: Exponential Growth			
A3.1-	Necessary Skills	A3.1-		
A3.3	The expectations state "determine through investigation"	A3.3		
	which is not the approach in this section.			
A3.1-	3.1: Introduction to Exponential Functions	B1.1		
A3.3		A3.5		
A3.1-	3.2: Rational Exponents	A3.5		
A3.3				
A3.1-	3.3: Properties of Exponential Functions	A3.4,		
A3.3		A3.5		
	3.4: Exponential Growth	A2.1,		
		A2.3,		
		A3.6		
	3.5: Exponential Decay	A2.1,		
		A2.3,		
		A3.6		
1				
	The following expectations are not completely covered by the			
	Addison Wesley textbook			
A2.1,	A2.2 distinguish exponential growth from linear and quadratic growth by	A2.2		
A3.4	making comparisons in a variety of ways (e.g., comparing rates of change using finite differences in tables of values; inspecting graphs; comparing			
A3.5	equations)			
A2.1,	A2.3. pose and solve problems based on applications involving an exponential	A2.3		
A3.4,	relation (e.g. population growth, radioactive decay, compound interest) by			
A3.5	using a given graph or a graph generated with technology from its equation.			
A2.2				
A2.3,				
A3.6				
	A3.1- A3.3 A3.1- A3.4 A3.4 A3.5 A3.1- A3.4 A3.4 A3.5 A3.1- A3.4 A3.5 A3.1- A3.4 A3.5 A3.1- A3.4 A3.5 A3.6 A3.6 A3.6 A3.6 A3.6 A3.6 A3.6 A3.6	Indiag Exponential Growth and Decay       raphs and Equations of Exponential Relations       Addison Wesley, Mathematics of Personal Finance 11       Chapter 3: Exponential Growth       A3.1-       A3.3       The expectations state "determine through investigation" which is not the approach in this section.       A3.1-       3.2: Rational Exponents       A3.3       A3.1-       3.3: Properties of Exponential Functions       A3.3       3.4: Exponential Growth       3.5: Exponential Decay       Xet       Mating comparisons in a variety of ways (e.g., comparing rates of change using finite differences in tables of values; inspecting graphs; comparing equations)       A2.1,       A2.1,       A2.1,       A3.5       using finite differences in tables of values; inspecting graphs; comparing equations)       A2.1,       A3.4, <tr< td=""></tr<>		

#### **Personal Finance**

B1: Solving Problems Involving Compound Interest			
McGraw Hill, Making Financial Decisions 11		Addison Wesley, Mathematics of Personal Finance 11	
Chapter 1:Personal Financial Planning		Chapter 1: Linear Growth	
1.4: Simple Interest	B1.2,	1.5: Simple Interest	B1.2
	B1.4		
		1.6: Simple Interest: Determining P, r, t	B1.2
Chapter 3: Sequences and Simple and Compound Interest		Chapter 2: Compound Interest	
3.4: Compound Interest	B1.1-	2.1: Compound Interest	B1.2-
	B1.5		B1.5
3.5: Present Value	B1.3	2.2: The Amount of an Investment	
3.6: Linear and Exponential Growth	B1.2	2.3: Compounding Periods Less than One Year	
		2.4: Present Value	
		2.5: Compound Interest: Determine i and n.	
		2.6: Project: Canada Savings Bonds	B2.2
		Chapter 7: Planning for the Future	
		7.7: Project: Investment Options	B2.2
		The following expectations are not completely covered by the	
		Addison Wesley textbook	
		B1.1 determine, through investigation (e.g., using spreadsheets and graphs),	B1.1
		and describe the relationship between compound interest and exponential	
		B1.2 compare using a table of values and graphs, the simple and compound	D1 2
		interest earned for a given principal (i.e., investment) and a fixed interest rate	D1.2
		over time	

B2: Investing and Borrowing			
McGraw Hill, Making Financial Decisions 11		Addison Wesley, Mathematics of Personal Finance 11	
Chapter 4: The Effects of Compounding		Chapter 5: Annuities: The Cost of Credit	
4.1: Effect of Interest Rates	B2.3	5.7: Project: Debit and Credit	2.4,
4.2: Effect of Compounding Frequency			2.0
4.3: Find the Interest Rate			
4.4: Find the Term	B2.3, B2.1		
4.5: Savings and Investment Alternatives	B2.1, B2.2		
Chapter 8: Consumer Spending		The following expectations are not completely covered by the Addison Wesley textbook	
8.1: Manage Your Retail Dollar	B2.1, B2.4, B2.5 B2.6	B2.1 determine, through investigation, and compare information about the various savings alternatives commonly available from financial institutions (e.g., savings and chequing accounts, term investments), the related costs (e.g., cost of cheques, monthly statement fees, early withdrawal penalties), and possible ways of reducing the costs (e.g., maintaining a minimum balance in a savings account; paving a monthly flat fee for a package of services):	B2.1
8.2: Manage Debit and Credit Cards	B2.4 B2.5 B2.6	B2.3 determine, using technology, the effect on savings of changing the variables involved in compound interest (e.g., the effect of different compounding periods on the growth of the same investment)	B2.3
		B2.5 solve problems involving applications of the compound interest formula in determining the cost of borrowing when making a purchase on credit	B2.5
	ning and	Onerating a Vehicle	
McGraw Hill, Making Financial Decisions 11		Addison Wesley Mathematics of Personal Finance 11	
Chapter 7: Vehicle Costs		Chapter 7: Planning for the Future	
7.1: Investigate Buying a New Vehicle	B3.1.	7.1: Buving a Vehicle	B3.1
7.2: Compare Buving a New Versus a Used Vehicle	B3.2,	7.2: Leasing A Vehicle	B3.1
7.3: Fixed and Variable Operating Costs	B3.3	7.3: Costs of Operating a Vehicle	B3.3
7.4: Buying Versus Leasing		7.4: Investigating the Choice of a Vehicle	B3.1
		I ne following expectations are not completely covered by the Addison Wesley toythook	
		B3.2 gather and describe information concerning the procedures and costs involved in insuring a vehicle and the factors affecting insurance rates (e.g., gender, age, driving record, model of vehicle, use of vehicle), and compare the insurance costs for different categories of drivers and for different vehicles	B3.2

## **Geometry and Trigonometry**

C1: Representing Two – Dimensional Shapes and Three – Dimensional Figures			
McGraw Hill, Mathematics 12: Preparing for College &		Addison Wesley, College and Apprenticeship Mathematics 12	
Apprenticeship			
Chapter 2: Problem Solving with Measurement		Chapter 3: Measurement in Design	
2.1: Systems of Measure	C1.3	3.1: Imperial Measurement	C1.3
2.2: Converting between Metric and Imperial	C1.3	3.6: Problem Solving: Combining Objects	C1.4
		3.7: Project: Landscaping	C1.4
Chapter 3:Geometry in Design		Chapter 4: Geometry in Design	
3.1: Geometric Shapes in Design	C1.1	4.1: Tiling	C1.1
3.2: Representing Three - Dimensional Objects	C1.2,	4.2: Symmetry in Patterns and Designs	C1.1
	C1.3		
3.3: Creating Nets, Plans, and Patterns	C1.3	4.3: Representing Objects: Using Perspective and Views	C1.2
3.4: Designing and Constructing Physical Models	C1.4	4.4: Representing Objects: Using Scale Drawings	C1.2
		4.5: Creating Nets and Patterns from Physical Objects	C1.3
		4.6: Plans and Models	C1.3
		4.8: Designing and Constructing a Model	C1.4
C2: Applying the Sine I	Law and	the Cosine Law in Acute Triangles	
McGraw Hill, Mathematics 12: Preparing for College &		Addison Wesley, College and Apprenticeship Mathematics 12	
Apprenticeship			
Chapter 1: Trigonometry		Chapter 1: Trigonometry	
1.1: Using Trigonometry to Find Lengths	C2.1	1.1: Determining Lengths of Sides in Right Triangles	C2.1
1.2: Using Trigonometry to Find Angles	C2.1	1.2: Determining the Measures of Angles in Right Triangles	C2.1
1.4: The Sine Law	C2.2,	1.3: The Sine Law in Acute Triangles	C2.2
	C2.3	(expectation requires investigation using technology)	
1.5: The Cosine Law	C2.2,	1.5: The Cosine Law	C2.2
	C2.3	(expectation requires investigation using technology)	
1.6: Problem Solving with Non-Right Triangles (all metric)	C2.4	1.6: Solving Triangles	C2.3
		1.7: Selecting a Strategy	C2.4

# Data Management

McGraw Hill, Mathematics 12: Preparing for College & Apprenticeship     Addison Wesley, College and Apprenticeship Mathematics 12       Apprenticeship     Chapter 5: Sampling     Notation 1000000000000000000000000000000000000	D1: Working with One-Variable Data			
Apprenticeship       Chapter 5: Sampling       Complex 1: Sampling Techniques       D1.1, D1.3, D1.4         A1: Collecting Data: Sampling Techniques       D1.1, D1.3, D1.4       D1.4       D1.0         A2: Methods of Collecting Data       D1.2       S.2: Selecting a Sample       D1.4, D1.0         4.2: Methods of Collecting Data       D1.2       S.2: Selecting a Sample       D1.4, D1.3         4.3: Representing Data       D1.5       S.3: Survey Design       D1.3         4.4: Measures of Central Tendency       D1.7, S.4: Using Technology to Graph Data       D1.5         V.4: Measures of Common Distributions       D1.8, D1.10       S.5: Assessing Reported Survey Results       D1.10         4.6: Properties of Common Distributions       D1.6       S.6: Project: Collecting Data       D1.2         V.4       D1.10       D1.6       S.6: Project: Collecting Data       D1.2         V.5       D1.6       S.6: Project: Collecting Data       D1.7       D1.9         V.6       D1.6       S.6: Project: Collecting Data       D1.2       D1.7         V.6       D1.6       S.6: Project: Collecting Data       D1.6       D1.6       D1.6       D1.6       D1.6       D1.6       D1.6       D1.6       D1.6	McGraw Hill, Mathematics 12: Preparing for College &		Addison Wesley, College and Apprenticeship Mathematics 12	
Chapter 4: Single-Variable Statistics     Chapter 5: Sampling       4.1: Collecting Data: Sampling Techniques     D1.1, D1.3, D1.4, D1.4     5.1: Gathering Data     D1.1, D1.4       4.2: Methods of Collecting Data     D1.2     5.2: Selecting a Sample     D1.3, D1.4       4.3: Representing Data     D1.5     5.3: Survey Design     D1.3       4.4: Measures of Central Tendency     D1.7, D1.8     5.4: Using Technology to Graph Data     D1.5       4.4: Measures of Central Tendency     D1.7, D1.8     5.4: Using Technology to Graph Data     D1.5       4.5: Properties of Common Distributions     D1.8, D1.10     5.5: Assessing Reported Survey Results     D1.10       4.6: Properties of Common Distributions     D1.6     5.6: Project: Collecting Data     D1.2       01.10     D1.10     D1.10     D1.2     D1.10       01.10     D1.10     D1.10     D1.10     D1.10       01.10     D1.10     D1.10     D1.2     D1.10       01.10     D1.10     D1.2     D1.2     D1.10       01.10     D1.10     D1.2     D1.10     D1.2       01.10     D1.6     5.6: Project: Collecting Data     D1.2       01.6     D1.6     D1.6 <td>Apprenticeship</td> <td></td> <td></td> <td></td>	Apprenticeship			
4.1: Collecting Data: Sampling Techniques     D1.1, D1.4, D1.4     5.1: Gathering Data     D1.1, D1.4       4.2: Methods of Collecting Data     D1.2     5.2: Selecting a Sample     D1.3, D1.4       4.3: Representing Data     D1.5     5.3: Survey Design     D1.3       4.4: Measures of Central Tendency     D1.7, D1.8     5.4: Using Technology to Graph Data     D1.5       4.5: Properties of Common Distributions     D1.8, D1.10     5.5: Assessing Reported Survey Results     D1.10       4.6: Properties of Common Distributions     D1.6     5.6: Project: Collecting Data     D1.2, D1.10       V     Chapter 6: Data Analysis     D1.7, D1.9     D1.9       0     6.1: Measures of Central Tendency and Spread     D1.7, D1.9       0     6.2: Distributions of Data     D1.6       0     6.1: Measures of Central Tendency and Spread     D1.7, D1.9       0     6.2: Distributions of Data     D1.6       0     Chapter 6: Data Analysis     D1.6       0     6.3: The Normal Distribution     D1.6       0     D1.8, Calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadheet, graphing calculator), and interpret measures of central tendency (i.e., mang, standard deviation);     D1.8	Chapter 4: Single-Variable Statistics		Chapter 5: Sampling	
D1.3, D1.4     D1.3, D1.4       D1.10     D1.2       4.2: Methods of Collecting Data     D1.2 D1.10       4.3: Representing Data     D1.5       5.3: Survey Design     D1.3       D1.10     D1.4       4.4: Measures of Central Tendency     D1.7, D1.8       D1.10     S.4: Using Technology to Graph Data       D1.10     D1.8       D1.10     S.5: Assessing Reported Survey Results       D1.10     D1.10       4.6: Properties of Common Distributions     D1.6       D1.10     S.6: Project: Collecting Data       D1.10     D1.10       4.6: Properties of Common Distributions     D1.6       D1.10     S.6: Project: Collecting Data     D1.7,       D1.10     D1.10     D1.2       D1.10     D1.10     D1.2       D1.10     D1.6     G.1: Measures of Central Tendency and Spread     D1.7,       D1.9     G.2: Distributions of Data     D1.6       G.3: The Normal Distribution     D1.6     G.3: The Normal Distribution     D1.6       G.3: The Sormal Distribution     D1.6     G.3: The Normal Distribution     D1.6       G.3: Calulate, using formulas and/or technol	4.1: Collecting Data: Sampling Techniques	D1.1,	5.1: Gathering Data	D1.1
D1.4 D1.10D1.4 D1.10D1.3 D1.34.2: Methods of Collecting DataD1.2 D1.105.2: Selecting a SampleD1.3, D1.44.3: Representing DataD1.5 D1.55.3: Survey DesignD1.34.4: Measures of Central TendencyD1.7, D1.8 D1.95.4: Using Technology to Graph DataD1.54.5: Properties of Common DistributionsD1.8 D1.9 D1.105.5: Assessing Reported Survey ResultsD1.104.6: Properties of Common DistributionsD1.6 D1.105.6: Project: Collecting DataD1.20Chapter 6: Data AnalysisD1.7, D1.906.1: Measures of Central Tendency and SpreadD1.7, D1.906.2: Distributions of DataD1.606.3: The Normal DistributionD1.60D1.8 coltware statistical software, standard deviation;D1.80D1.8 coltware, with one spread file, range, standard deviation;D1.8		D1.3,		
D1.10D1.2D1.2D1.34.2: Methods of Collecting DataD1.3D1.4J.3: Representing DataD1.5S.3: Survey DesignD1.3J.10D1.7S.4: Using Technology to Graph DataD1.5J.10D1.9D1.9D1.9J.10J.9D1.9D1.104.6: Properties of Common DistributionsD1.6S.6: Project: Collecting DataD1.2J.10D1.9D1.10D1.24.6: Properties of Common DistributionsD1.6S.6: Project: Collecting DataD1.2J.10D1.10D1.10D1.24.6: Properties of Common DistributionsD1.6S.6: Project: Collecting DataD1.2D1.10D1.10D1.10D1.2J.10D1.10D1.2D1.2J.10D1.10D1.2D1.2J.10D1.10D1.2D1.2J.10D1.10D1.2D1.2J.10D1.10D1.2D1.2J.10D1.10D1.2D1.2J.10D1.10D1.6D1.7J.10D1.6D1.6D1.6J.10D1.6D1.6D1.6J.10D1.6D1.6D1.6J.10D1.8Challenge textbookD1.8J.10D1.8Challenge textbookD1.8J.10D1.8Challenge textbookD1.8J.10D1.6D1.8Challenge textbookD1.6J.10D1.8Challenge textbookD1.8J.10D1.8Cha		D1.4		
4.2: Methods of Collecting Data     D1.2 D1.10     5.2: Selecting a Sample     D1.3, D1.4       4.3: Representing Data     D1.5 D1.5     5.3: Survey Design     D1.3       4.4: Measures of Central Tendency     D1.7, D1.8 D1.10     5.4: Using Technology to Graph Data     D1.5       4.4: Measures of Common Distributions     D1.8, D1.9     5.5: Assessing Reported Survey Results     D1.10       4.6: Properties of Common Distributions     D1.6, D1.10     5.6: Project: Collecting Data     D1.2       4.6: Properties of Common Distributions     D1.6, D1.10     5.6: Project: Collecting Data     D1.2       6.1: Measures of Central Tendency and Spread     D1.7, D1.9     D1.6     D1.6     D1.6       6.3: The Normal Distributions     D1.6, G.3: The Normal Distribution     D1.6     D1.6     D1.6       6.3: The Normal Distribution     D1.6     D1.6     D1.6     D1.6     D1.6       6.3: The Normal Distribution     D1.6		D1.10		
D1.00D1.44.3: Representing DataD1.5 D1.05.3: Survey DesignD1.34.4: Measures of Central TendencyD1.7, D1.8 D1.105.4: Using Technology to Graph DataD1.54.4: Measures of Common DistributionsD1.8, D1.95.5: Assessing Reported Survey ResultsD1.04.5: Properties of Common DistributionsD1.6 D1.05.6: Project: Collecting DataD1.24.6: Properties of Common DistributionsD1.6 D1.105.6: Project: Collecting DataD1.20D1.10S.6: Project: Collecting DataD1.7, D1.90D1.10D1.6 D1.10S.6: Project: Collecting DataD1.7, D1.90D1.10D1.6 D1.10D1.7, D1.9D1.7, D1.90Chapter 6: Data AnalysisD1.6 D1.6D1.60G.3: The Normal DistributionD1.60D1.8, calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);D1.8	4.2: Methods of Collecting Data	D1.2	5.2: Selecting a Sample	D1.3,
4.3: Representing Data     D1.5     5.3: Survey Design     D1.3       4.4: Measures of Central Tendency     D1.7,     5.4: Using Technology to Graph Data     D1.5       4.4: Measures of Central Tendency     D1.7,     5.4: Using Technology to Graph Data     D1.5       4.5: Properties of Common Distributions     D1.8,     5.5: Assessing Reported Survey Results     D1.10       4.6: Properties of Common Distributions     D1.6     5.6: Project: Collecting Data     D1.2       4.6: Properties of Common Distributions     D1.6     5.6: Project: Collecting Data     D1.2       01.10     Chapter 6: Data Analysis     D1.7,     D1.9       01.10     6.1: Measures of Central Tendency and Spread     D1.7,       01.9     6.2: Distributions of Data     D1.6       01.10     6.3: The Normal Distribution     D1.6       01.10     01.6     D1.8, software, spreadsheet, graphing calculator), and interpret measures of central rendency (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central rendency is standard deviation);     D1.8		D1.10		D1.4
D1.10     D1.7     5.4: Using Technology to Graph Data     D1.5       4.4: Measures of Central Tendency     D1.7, D1.8     5.4: Using Technology to Graph Data     D1.5       4.5: Properties of Common Distributions     D1.8, D1.9     5.5: Assessing Reported Survey Results     D1.10       4.6: Properties of Common Distributions     D1.6     5.6: Project: Collecting Data     D1.2       4.6: Properties of Common Distributions     D1.6     5.6: Project: Collecting Data     D1.2       01.10     D1.10     D1.10     D1.2       01.10     D1.10     D1.10     D1.2       01.10     D1.10     D1.2     D1.10       01.10     D1.10     D1.10     D1.2       01.10     D1.6     5.6: Project: Collecting Data     D1.2       01.10     D1.10     D1.10     D1.7       01.10     D1.10     D1.10     D1.2       01.10     D1.10     D1.10     D1.2       01.10     D1.6     5.6: Project: Collecting Data     D1.7       01.10     D1.10     D1.2     D1.7     D1.9       01.10     D1.10     D1.2     D1.6     D1.6       01.10 <td< td=""><td>4.3: Representing Data</td><td>D1.5</td><td>5.3: Survey Design</td><td>D1.3</td></td<>	4.3: Representing Data	D1.5	5.3: Survey Design	D1.3
4.4: Measures of Central Tendency     D1.7, D1.8 D1.0     5.4: Using Technology to Graph Data     D1.5       4.5: Properties of Common Distributions     D1.8 D1.9 D1.10     5.5: Assessing Reported Survey Results     D1.10       4.6: Properties of Common Distributions     D1.6 D1.10     5.6: Project: Collecting Data     D1.2       4.6: Properties of Common Distributions     D1.6 D1.10     5.6: Project: Collecting Data     D1.2       6.1: Measures of Central Tendency and Spread     D1.7, D1.9     D1.6     D1.6       6.1: Measures of Central Tendency and Spread     D1.6, G.3: The Normal Distribution     D1.6       7     D1.8     The following expectations are not completely covered by the Addison Wesley textbook     D1.8       01.8. calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);     D1.8		D1.10		
D1.8 D1.10   D1.8 D1.10     4.5: Properties of Common Distributions   D1.8, D1.9 D1.10     4.6: Properties of Common Distributions   D1.6 D1.10     5.6: Project: Collecting Data   D1.2	4.4: Measures of Central Tendency	D1.7,	5.4: Using Technology to Graph Data	D1.5
D1.10D1.10D1.8, D1.9, D1.10D1.8, D1.9, D1.10D1.10D1.104.6: Properties of Common DistributionsD1.6, D1.105.6: Project: Collecting DataD1.24.6: Properties of Common DistributionsD1.6, D1.105.6: Project: Collecting DataD1.20Chapter 6: Data AnalysisD1.206.1: Measures of Central Tendency and SpreadD1.7, D1.906.2: Distributions of DataD1.606.3: The Normal DistributionD1.600S.3: The Normal DistributionD1.600D1.8, calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);D1.8		D1.8		
4.5: Properties of Common Distributions     D1.8, D1.9, D1.10     5.5: Assessing Reported Survey Results     D1.10       4.6: Properties of Common Distributions     D1.6, D1.10     5.6: Project: Collecting Data     D1.2       Chapter 6: Data Analysis       6.1: Measures of Central Tendency and Spread     D1.7, D1.9       6.2: Distributions of Data     D1.6       6.3: The Normal Distribution     D1.6       The following expectations are not completely covered by the Addison Wesley textbook       D1.8. calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);     D1.8		D1.10		
D1.9 D1.10     D1.9 D1.10     D1.9 D1.10     D1.0     D1.2       4.6: Properties of Common Distributions     D1.6 D1.10     5.6: Project: Collecting Data     D1.2       Chapter 6: Data Analysis       6.1: Measures of Central Tendency and Spread     D1.7, D1.9       D1.6       6.2: Distributions of Data     D1.6       Chapter 6: Data Analysis       6.1: Measures of Central Tendency and Spread     D1.7, D1.9       D1.6       6.2: Distributions of Data     D1.6       Chapter following expectations are not completely covered by the Addison Wesley textbook       D1.8. calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);     D1.8	4.5: Properties of Common Distributions	D1.8,	5.5: Assessing Reported Survey Results	D1.10
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4.6: Properties of Common Distributions     D1.6 D1.10     5.6: Project: Collecting Data     D1.2       Chapter 6: Data Analysis       6.1: Measures of Central Tendency and Spread     D1.7, D1.9       6.2: Distributions of Data     D1.6       6.3: The Normal Distribution     D1.6       The following expectations are not completely covered by the Addison Wesley textbook       D1.8. calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);     D1.8		D1.10		
D1.10     D1.10       D1.10       Chapter 6: Data Analysis       6.1: Measures of Central Tendency and Spread       D1.7,     D1.9       D1.0     6.2: Distributions of Data       D1.6     6.3: The Normal Distribution       D1.6       The following expectations are not completely covered by the Addison Wesley textbook       D1.8. calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);	4.6: Properties of Common Distributions	D1.6	5.6: Project: Collecting Data	D1.2
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D1.906.2: Distributions of DataD1.606.3: The Normal DistributionD1.600			6.1: Measures of Central Tendency and Spread	D1.7,
6.2: Distributions of Data     D1.6       6.3: The Normal Distribution     D1.6       The following expectations are not completely covered by the Addison Wesley textbook       D1.8. calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);     D1.8				D1.9
6.3: The Normal Distribution     D1.6       The following expectations are not completely covered by the Addison Wesley textbook       D1.8. calculate, using formulas and/or technology (e.g., dynamic statistical software, spreadsheet, graphing calculator), and interpret measures of central tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);     D1.8			6.2: Distributions of Data	D1.6
Image: Constraint of the second se			6.3: The Normal Distribution	D1.6
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tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard deviation);			software, spreadsheet, graphing calculator), and interpret measures of central	
standard deviation);			tendency (i.e., mean, median, mode) and measures of spread (i.e., range, standard doviation):	
				1

D2. Applying Probability			
McGraw Hill, MATHPOWER Nine		Addison Wesley, Minds on Math	
Chapter 10: Statistics and Probability		Chapter 2: Statistics and Probability	
10.9: Possible Outcomes	D2.2	Pgs 90 – 94 : Making Predictions	D2.3
		(could extend to include 2.4 and 2.5)	
10.10: The Probability Formula	D2.2,	Pgs 95 – 98 : Probability	D2.2
	D2.4	(could extend to include 2.4 and 2.5)	
10.11: Independent Events	D2.3,	Pgs 82-85: Math and Media, Sampling and TV Ratings	D2.6
	D2.5		
10.12: Dependent Events	D2.3,		
	D2.4		
LEARING TOGETHER: Experimental Probability	D2.3,	Pgs 99 – 108 are interesting and could be added although they	
	D2.4	are not directly linked to the expectations.	
		• • •	
The following expectations are not adequately covered by		The following expectations are not adequately covered by the	
the McGraw Hill MATHPOWER 9 textbook		Addison Wesley, Minds on Math textbook	
D2.1 identify examples of the use of probabilities in the media and various	D2.1	D2.1 identify examples of the use of probabilities in the media and various	D2.1
ways in which probability is represented (e.g., as a fraction, as a percent, as		ways in which probability is represented (e.g., as a fraction, as a percent, as a	
a decimal in the range 0 to 1);	D2 (	decimal in the range 0 to 1); D2.4 compares through investigation the theoretical probability of an event	D2 4
the media, and make connections between probability and statistics (e.g.	D2.6	with the experimental probability and explain why they might differ	D2.4
both probabilities and statistics can be used to make predictions).		while the experimental producinely, and explain why they might differ	
		D2.5. determine, through investigation, the tendency of experimental	D2.5
		probability to approach theoretical probability as the number of trials in an	
		experiment increases (e.g., "if I simulate tossing a coin 1000 times using	
		likely to be closer to the theoretical probability that I calculate for tossing tails is	
		the coin 10 times"), using class-generated data and technology-based	
		the coin 10 times"), using class-generated data and technology-based simulation models (e.g., using a random-number generator on a spreadsheet or	