IAA Curriculum

Content Area	Mathematics		Grade	11
Course Name	Business Math			

Unit Number	Unit Topic	Instruction	Review/Reteach/Extension	Assessing	Buffer	Total
1	Number Systems	15	1	1	1	18
2	Solving Equations	5	1	1	2	9
3	Banking	10	1	1	1	13
4	Discounts Markups and Markdowns	12	1	1	1	15
5	Payroll and Interest	10	1	1	2	14
6	Investment Buying	4	1	1	2	8
7	Financial Reports	8	1	1	1	11
8	Depreciation	10	1	1	1	13
9	Inventory Overhead and Taxes	10	1	1	2	14
10	Business Stats	8	1	1	1	11
11	Spreadsheets and Slides	10	1	1	1	13
12	School Store	7				0
Extra	Assessment Days/Days After Testing					35
Total Time		102	11	11	15	174
School Days	174					
Free Days	0					

Unit / Concept	Unit 1: Number Systems						
Big Ideas	Fractions decimals and percents are typically an area where students struggle mathematically. However, being proficient with fractions, decimals and percents is a critical skill when working in the world of business. This unit will provide a refresher on each of these topics and prep students for future topics in the course.						
Essential Understandings	How can you represent money in equivalent forms?						
Competencies	Operations with fractions, decimals an Converting between fractions, decimal						
Dates (estimates only)	Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary			
15 Days	SWBAT add subtract multiply and divide whole numbers SWBAT add subtract multiply and divide fractions SWBAT add subtract multiply and divide percentages SWBAT convert between fractions, decimals and percents SWBAT apply fractions, decimals and percents to real world situations	Section 1-1 and 1-2 Section 2-2 and 2-3 Section 3-1 and 3-2 Percent Change Activity Section 2-1 and 6-1 Chapter 3 Cumulative Review A Word Problem Approach	PA: M06.A-R.1.1	Integer Whole Number Fraction Numerator Denominator Equivalent form Decimal Percent Terminating Decimal Repeating Decimal Rational Number Irrational Number			
Resources	Practical Business Math Procedures 1 workbook, group sharing, teacher teacher		os.com, Connected-mgrawhill.com, Youtube.com	n, Kutasoftware.com,			
Formative Assessments	Do Nows, exit tickets, student respons	es, classwork, homework, pair sharing/	group discussions				
Summative Assessments	Homework, quizzes, test						

Strategies for ELL and IEP Support

Use of Calculators, Simplified directions, Translation tools, Reduction in required responses, Frequent check for understandings



Unit / Concept	Unit 2: Solving Equations					
Big Ideas	 Apply operations performed on whole numbers to expressions and functions Difference between expressions, functions, and equations 					
Essential Understandings	How can mathematical ideas be repre	esented?				
Competencies	Students will be able to: Write algebraic expressions and use the order of operations Define appropriate quantities for descriptive modeling Represent and interpret relations and functions Interpret the graphs of functions					
Dates (estimates only)	Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary		
5 Days	SWBAT solve one step equations	Section 5-1 and 5-2	PA:	Formula, solve		
	SWBAT solve two step equations		CC.2.1.HS.F.4 CC.2.2.8.B.3	an equation, equivalent		
	SWBAT solve multi step equations		CC.2.2.HS.D.8	equations, linear equations, multi-step equation, identity, ratio, proportion,		
Resources	Practical Business Math Procedures workbook, group sharing, teacher tea		os.com, Connected-mgrawhill.com, Youtube.com, Kutasoftw	are.com,		
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions					
Summative Assessments	Homework, quizzes, test					
Strategies for ELL Support	and IEP Use of Calculators, Simpli	ied directions,Translation tools,Reduction	n in required responses,Frequent check for understandings			

Unit / Concept	Unit 3: Banking					
Big Ideas	Banking is a critical part of owning a business and is required to successfully manage the money of a business.					
Essential Understandings	What tools	s are available from the bank	to help grow a business?			
Competencies	Managing Writing Ch Understan Reconcilia	necks oding Bank Statements				
Dates (estimates only)		Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary	
10 Days	SWBAT Open a checking account SWBAT Write a check SWBAT Balance a Checkbook Sections 4-1 and 4-2		Sections 4-1 and 4-2	BCIT: 152.12.G Economics: 6.5.9.G 6.5.(3,4).H	Checking Account Check Bank Statement Reconcile Deposit Withdrawal	
Resources	Practical E workbook,	Business Math Procedures 1: group sharing, teacher teac	3th edition (textbook), Calculator, Desm hing/modeling, chromebooks	os.com, Connected-mgrawhill.com, Youtube.com, Kutasoftw	are.com,	
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions					
Summative Assessments	Homework, quizzes, test					
Strategies for ELL Support	ELL and IEP Use of Calculators, Simplified directions, Translation tools, Reduction in required responses, Frequent check for understandings					

Unit / Concept	Unit 4: Discounts, Markups and Markdowns						
Big Idea	Knowing how to price your goods will have a direct impact on your sales.						
Essential Q.	How can you find the best price for your goods?						
Competencies	 Trade Discounts Calculate discounts and cred Calculate Markups Calculate Markdowns 	it payments					
Dates (estimates only)	Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary			
12 Days	SWBAT calculate trade discounts (including freight)	Section 7-1	Economics: 6.2.9.B 6.2.9.C	Credit Discount Markup			
	SWBAT calculate cash discounts, credit terms and partial payments	Section 7-2	6.2.9.D	Markdown Breakeven			
	SWBAT Calculate markups based on cost	Section 8-1					
	SWBAT Calculate markups based on selling price	Section 8-2					
	SWBAT Calculate markdowns on perishable items	Section 8-3					
	SWBAT Calculate breakeven analysis	Section 8-4					
Resources	Practical Business Math Procedures 13th edition (textbook), Calculator, Desmos.com, Connected-mgrawhill.com, Youtube.com, Kutasoftware.com, workbook, group sharing, teacher teaching/modeling, chromebooks						
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions						
Summative Assessments	Homework, quizzes, test						

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Unit / Concept	Unit 5: Payroll and Interest						
Big Idea	In order to attract employees, businesses need to have fair pay while maintaining profits. Businesses also need to be aware of any loans they take and how interest will be calculated.						
Essential Q.	What are t	How are employees paid? What are the different kinds of interests? How will the different types of interest affect how much money you pay overall for the loan?					
Competencies	• C	Calculate gross and net pay Calculate simple interest Calculate compound interest					
Dates (estimates only)		Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary		
10 Days		alculate various types of s gross pay	Section 9-1	BCIT: 15.1.12.M PA:	Gross pay Net pay		
	SWBAT compute payroll deductions for employee's pay SWBAT Calculate simple interest Section 10-1		Section 9-2	CC.2.2.HS.C.2 CC.2.2.HS.D.1	Social Security Medicare Taxes Simple Interest		
			Section 10-1 and 10-3		Maturity Value Compound		
	SWBAT ca	alculate compound interest	Section 12-1 and 12-2		Interest Rate		
Resources			3th edition (textbook), Calculator, Desr hing/modeling, chromebooks	nos.com, Connected-mgrawhill.com, Youtube.com,	Kutasoftware.com,		
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions						
Summative Assessments	Homework, quizzes, test						
Strategies for ELL Support	utegies for ELL and IEP port Use of Calculators, Simplified directions, Translation tools, Reduction in required responses, Frequent check for understandings						

Unit / Concept	Unit 6: Installment Buying						
Big Idea	Due to the fact that some items are very expensive, it makes sense to buy them and pay them off over a given period of time.						
Essential Q.	How can you pay for the items needed	How can you pay for the items needed to run your business?					
Competencies	Use of a credit cardCost of installment buying						
Dates (estimates only)	Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary			
4 Days	SWBAT compute the cost of installment buying	Section 14-1	BCIT: 15.1.5.W BCIT: 15.6.8.H BCIT: 15.6.12.H	Credit card Installments			
	SWBAT calculate the revolving Section 14-2 charge of credit cards		ВСП. 15.0.12.П				
Resources	Practical Business Math Procedures 1 workbook, group sharing, teacher teach		os.com, Connected-mgrawhill.com, Youtube.com,	Kutasoftware.com,			
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions						
Summative Assessments	Homework, quizzes, test						
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Unit / Concept	Unit 7: Fir	Unit 7: Financial Reports					
Big Idea	In order fo	r a business to survive, its ov	wner must be proficient at reading finan	cial reports.			
Essential Q.	What infor	mation on a financial report o	can be used to grow a business?				
Competencies	• R	 Read a balance sheet Read an income statement Apply information from balance and income sheets to make decisions about your business. 					
Dates (estimates only)		Smart Objectives	Instructional Strategies and Activities	Standard	Vocabulary		
8 Days	SWBAT re sheet	ad and interpret a balance	Section 16-1	FCS: 11.1.9.B FCS: 11.1.12.B	Statement Balance sheet		
		ad and interpret an atement over a specific ime.	Section 16-2		Income Trend Ratio		
	SWABT ap	oply trend and ratio	Section 16-3				
Resources			3th edition (textbook), Calculator, Desm hing/modeling, chromebooks	os.com, Connected-mgrawhill.com, Youtube.com, Kutasoftw	rare.com,		
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions						
Summative Assessments	Homework, quizzes, test						
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Unit / Concept	Unit 8: De	Unit 8: Depreciation						
Big Idea	Businesse	Businesses need to understand that their goods may lose value.						
Essential Q.	How do pro	How do products lose value?						
Competencies	• U	se the Straight line, units of	production Declining balance and mo	odified accelerated cost recovery methods				
Dates (estimates only)		Smart Objectives	Instructional Strategies and Activities	Standard	Vocabulary			
		pply the Straight line find depreciation	Section 17-1	BCIT: 15.1.8.H BCIT: 15.6.8.F	Depreciation Straight Line Method			
10 Days	SWBAT use the Units of Production method to find depreciation		Section 17-2		Units of Production Declining			
		e the Declining Balance find depreciation	Section 17-3	577	Balance Accelerated Cost Recovery			
	1	e the Modified d Cost Recovery System	Section 17-4		Systems			
Resources			3th edition (textbook), Calculator, Des hing/modeling, chromebooks	smos.com, Connected-mgrawhill.com, Youtube.com, Kutasoft	ware.com,			
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions							
Summative Assessments	Homework, quizzes, test							
Strategies for ELL Support	and IEP	Use of Calculators,Simplifi	ed directions,Translation tools,Reduc	tion in required responses,Frequent check for understandings	;			

Unit / Concept	Unit 9: Inventory, Overhead and Taxes						
Big Idea	Businesses need to keep track of their product to ensure that they have enough to meet the demands of their customers						
Essential Q.	How do businesses keep track of the	ir inventory?					
Competencies	Manage inventoryApply sales tax						
Dates (estimates only)	Smart Objectives	Instructional Strategies and Activities	Standard	Vocabulary			
10 Days	SWBAT assign cost of ending inventory	Section 18-1	BCIT: 15.6.12.A BCIT: 15.6.12.H	Inventory Overhead Sales tax			
	SWBAT apply retail method, gross product method, inventory turnover and the distribution of overhead	Section 18-2		Excise Tax Retail Method Inventory Turnover			
	SWBAT calculate sales and excise Section 19-1 tax			Turriover			
Resources	Practical Business Math Procedures workbook, group sharing, teacher tea		smos.com, Connected-mgrawhill.com, Youtube.com,	Kutasoftware.com,			
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions						
Summative Assessments	Homework, quizzes, test						
Strategies for ELL Support	and IEP Use of Calculators, Simpli	fied directions, Translation tools, Reduc	ction in required responses,Frequent check for under	standings			

Unit / Concept	Unit 10: B	Unit 10: Business Stats					
Big Idea	An unders	tanding of statistics will enab	ole a business owner to make prediction	ns based on previous data.			
Essential Q.	What data	is useful when making pred	ictions to grow your business.				
Competencies	 Mean Median Mode Range Frequency graphs 						
Dates (estimates only)		Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary		
8 days	SWBAT ca	alculate the mean median	Section 22-1	PA: CC.2.4.HS.B.1 CC.2.4.HS.B.3	Mean Median Mode		
	SWBAT C	alculate the range	Section 22-3	CC.2.4.110.B.3	Range Frequency		
		nalyze frequency ns and graphs	Section 22-2		distribution Frequency graph		
Resources			3th edition (textbook), Calculator, Desm hing/modeling, chromebooks	nos.com, Connected-mgrawhill.com, Yo	utube.com, Kutasoftware.com,		
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions						
Summative Assessments	Homework, quizzes, test						
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Unit / Concept	Unit 11: Representations of Data								
Big Idea	Programs such as Excel/Google Slides and PowerPoint/Google Slides are important tools to represent data and convey ideas in a business environment.								
Essential Q.	How do you represent data in Excel/Google Sheets? How do you use functions in Excel/Google Sheets? How do you create a presentation in PowerPoint/Google Slides How can you show the data found in Excel/Google Sheets with PowerPoint/Google Slides								
Competencies	 Finding and recording data Create formulas in Excel/Google Sheets to gain additional information from the data Apply information acquired from Excel/Google Sheets and present it in PowerPoint/Google Slides 								
Dates (estimates only)		Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary				
10 Days	SWBAT co	ollect data and represent it dsheet	Overview of Google sheets. How to make tables and track data.	PA: CC.2.4.HS.B.1 CC.2.4.HS.B.3	Google Sheets Google Slides Bar Graph Line Graph Pie Chart				
	SWBAT cr Sheets	reate formulas in Google	6	CC.2.4.NS.B.3					
	SWBAT cr Google Sli	reate a presentation using ides							
Resources	Practical Business Math Procedures 13th edition (textbook), Calculator, Desmos.com, Connected-mgrawhill.com, Youtube.com, Kutasoftware.com, workbook, group sharing, teacher teaching/modeling, chromebooks								
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions								
Summative Assessments	Homework, quizzes, test								
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Unit / Concept	Unit 12: School Store							
Big Idea	Experience is one of the greatest methods of learning and retaining information. By having students operate a school store, they will gain valuable experience if they were to go on and own their own business							
Essential Q.	What skills are required to own and operate a business							
Competencies	 Scheduling Pricing Inventory Management 							
Dates (estimates only)		Smart Objectives	Instructional Strategies and Activities	Standards	Vocabulary			
Ongoing	SWBAT op	perate a school store	Students run the store Possible call in orders to be delivered	FCS: 11.2.6.A BCIT: 15.6.5.B BCIT: 15.9.5.E	Inventory Profit Revenue Expenses			
Resources	Practical Business Math Procedures 13th edition (textbook), Calculator, Desmos.com, Connected-mgrawhill.com, Youtube.com, Kutasoftware.com, workbook, group sharing, teacher teaching/modeling, chromebooks							
Formative Assessments	Do Nows, exit tickets, student responses, classwork, homework, pair sharing/group discussions							
Summative Assessments	Homework, quizzes, test							
Strategies for ELL Support	and IEP	nd IEP Use of Calculators, Simplified directions, Translation tools, Reduction in required responses, Frequent check for understandings						