- State Curriculum Standards: 1.1.11A Locate various texts, media and traditional resources for assigned and independent projects before reading.
 - 1.1.11C Use knowledge of root words and words from literary works to recognize and understand the meaning of new words during reading. Use these words accurately in speaking and writing.
 - 1.1.11D Identify, describe, evaluate and synthesize the essential ideas in text. Assess those reading strategies that were most effective in learning from a variety of texts.
 - 1.1.11E Establish a reading vocabulary by identifying and correctly using new words acquired through the study of their relationships to other words. Use a dictionary or related reference.
 - 1.1.11F Understand the meaning of and apply key vocabulary across the various subject areas.
 - 1.1.11H Demonstrate fluency and comprehension in reading.
 - 1.2.11A Read and understand essential content of informational texts and documents in all academic areas
 - 1.2.11B Use and understand a variety of media and evaluate the quality of material produced.
 - 1.4.11B Write complex informational pieces.
 - 1.1.11E Write a personal résumé.
 - 1.5.11F Edit writing using the conventions of language.
 - 2.2.11A Develop and use computation concepts, operations and procedures with real numbers in problem-solving situations.
 - 2.2.11F Demonstrate skills for using computer spreadsheets and scientific and graphing calculators.
 - 2.4.11E Demonstrate mathematical solutions to problems (e.g., in the physical sciences).
 - 2.5.11B Use symbols, mathematical terminology, standard notation, mathematical rules, graphing and other types of mathematical representations to communicate observations, predictions, concepts, procedures, generalizations, ideas and results.
 - 2.8.11D Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.
 - 2.8.11H Select and use an appropriate strategy to solve systems of equations and inequalities using graphing calculators, symbol manipulators, spreadsheets and other software.
 - 2.8.11Q Represent functional relationships in tables, charts and graphs.
 - 2.11.11B Interpret maximum and minimum values in problem situations.

Unit: Creating a Worksheet and Embedded Chart

Content Standard: Creating a worksheet with calculations and an embedded chart for first quarter sales.

Course Content	Student Performance	Resources	Assessments
 A. The Excel Worksheet Window Menu bar Toolbars Cell Rows and columns 	Identify the windows and toolbars	Microsoft Office XP Introductory Concepts and Techniques (South-Western Publishing 2003) IBM compatible computer	 Oral quiz True/false, multiple choice, and short answer questions Project
 B. Entering Text Title Column and row titles Numeric data Calculating a sum Fill handle 	Type in titles and numeric data in a worksheet and use the fill handle in place of typing	 Microsoft Windows XP and Office 2003 software Student computer data files 	• Labs
 C. Formatting Style, size, attributes AutoFormat Centering across columns Name box 	 Format the worksheet to make it easier to read and understand Create and embed chart to show the worksheet in 		
D. 3-D Column ChartChart wizardEmbed chart	picture formatSave a worksheet		
E. Saving a Worksheet	Open, print and quit a		
F. Printing, Quitting, and Opening a WorksheetG. AutoCalculate	worksheetUse autocalculate to determine totals		
H. Correcting Errors	Correct errors in the worksheet		

Unit: Formulas, Functions, Formatting and Web Queries

Content Standard: Creating a worksheet with formulas and functions and changing the format manually.

Course Content	Student Performance	Resources	Assessments
A. Entering Titles and Numbers	Type multiple lines in the same cell	Microsoft Office XP Introductory Concepts and Techniques (South-Western	Oral quizTrue/false, multiple choice,
B. Entering FormulasOrder of operation	Enter formulas using different modes	Publishing 2003)	and short answer questions
Point modeFill handle		IBM compatible computer	Project
AutoSumSelect nonadjacent cells		Microsoft Windows XP and Office 2003 software	Labs
 C. Average, Max and Min Functions Keyboard and mouse Edit formula box and functions box Paste function box 	Apply the average, max and min function formulas in different methods	Student computer data files	
D. Verifying FormulasRange finderAuditing commands	Verify formulas using different methods		
 E. Formatting Worksheet Font, size, alignment, and attributes Background and font colors Formatting numbers Conditional formatting Changing column/row widths and heights 	Format the worksheet to make it easier to read and understand		
	Check spelling of a		

F. Checking Spelling	worksheet	

Course Content	Student Performance	Resources	Assessments
G. Saving	Save a worksheet		
H. PrintingPortrait or landscapeValues or formula viewScaling	Print worksheet in different modes		
I. Changing Sheet Names	Rename workbook sheets		
J. Web Queries	Produce real-time worksheets		
K. Importing External Data	Update worksheets		

Unit: What-If Analysis, Charting, and Working with Large Worksheets

Content Standard: Creating a worksheet using the draw toolbar, making assumptions, using what-if and absolute cell references and creating charts.

Course Content	Student Performance	Resources	Assessments
 A. Rotating Text and Using the Fill Handle for a Series B. Using Format Painter Button Increase column width 	 Creating titles to set them apart Create attributes them apply them to other cells 	Microsoft Office XP Introductory Concepts and Techniques (South-Western Publishing 2003)	 Oral quiz True/false, multiple choice, and short answer questions
C. Inserting and DeletingRows, columnsD. Numbers with Format Symbol	 Insert and delete rows and columns in a worksheet Type numbers and change the format 	 IBM compatible computer Microsoft Windows XP and Office 2003 software Student computer data files 	 Project Labs Test-concepts
E. Freezing title	Freeze row and column titles	Otadoni computer data mee	Test-applications
 F. Displaying Date and Time G. Absolute vs. Relative H. The If Function I. Drawing Toolbar Displaying and docking Drop shadow Font size Background colors J. 3-D Pie Chart Separate chart sheet 	 Display date and time in a cell on the worksheet Write formulas when copied can be absolute or relative Use the if function Create attributes for the worksheet using drawing Create a 3-D pie chart with different attributes 		Remediation: Reread project Apply your knowledge Enrichment: Cases and places
 Chart titles and labels Changing colors Exploding Rotating and tilting Leader lines K. What-If Analysis Changing values 	Use Excel to answer what-if questions and goal seek to analyze data		

Goal seeking

Unit: Financial Functions, Data Tables, Amortization Schedules and Hyperlinks

Content Standard: Analyze data using recalculation, goal seeking capabilities, and amortization schedules.

Course Content	Student Performance	Resources	Assessments
A. Outlining and AddingBordersFormatting cellsEntering loan data	Add and outline to the loan analysis section	Microsoft Office XP Introductory Concepts and Techniques (South-Western Publishing 2003)	 Oral quiz True/false, multiple choice, and short answer questions
 B. Creating Cell Names Based on Row Titles Name command Define command Financial formulas Series 	Create cell names using the name command to refer to related data	 IBM compatible computer Microsoft Windows XP and Office 2003 software Student computer data files 	 Project Labs Excel test
 C. Using a Data Table Creating a percent series Entering formulas Defining the data table Formatting the table 	 Create a data table to show answers generated by formulas in which different values have been substituted Use conditional formatting to 	otacini compater acta moc	Remediation:
D. Input Value Pointers and Conditional Formatting	color the background of the cell that agrees with the input cell		Reread projectApply your knowledge
 E. Creating an Amortization Schedule Using the fill handle Entering formulas Entering new loan data 	Show the beginning and ending balances and the amount of payment that applies to principal and interest for each year using an amortization schedule		Enrichment: • Cases and places
F. Adding a Hyperlink	 Create a link on a spreadsheet to another file Protect worksheet cells that 		

G. Protecting the Worksheet	should not be changed	

Unit: Creating, Sorting, and Querying a Worksheet Database

Content Standard: Create a database for business purposes and be able to sort and query it in various ways.

Course Content	Student Performance	Resources	Assessments
A. Creating a Database Set up Naming	Utilize Excel to create a worksheet database	Microsoft Office XP Introductory Concepts and Techniques (South-Western Publishing 2003)	 Oral quiz True/false, multiple choice, and short answer questions
Entering RecordsData Form		IBM compatible computer	Project
B. Adding Computational FieldsCalculating percentagesVLookup	Utilize function tools to create additional field in the database	Microsoft Windows XP and Office 2003 software	• Labs
C. Using a Data Form to View/Change Data	Alter existing data via a data form	Student computer data files	Excel test
D. Sorting the DatabaseAscending/descendingMultiple field sort	Reorder the database according to various criteria		
E. Displaying SubtotalsAdding/removing	Calculate and display subtotals and totals		Remediation: Reread project
F. Finding RecordsComputedWildcard	Use various criteria to extract data		Apply your knowledge Freichment
 G. Filtering AutoFilter Custom criteria Criteria range Advanced filter Extracting records 	Using a variety of methods, extract data based on given criteria		Enrichment:Cases and places
H. Database Functions	Utilize formulas to pull statistical data from spreadsheet database		

Unit: Creating Templates and Working with Multiple Worksheets and Workbooks

Content Standard: Develop a template and utilize worksheets within a workbook for consolidation purposes.

Course Content	Student Performance	Resources	Assessments
A. Creating a TemplateSetting up a templateCreating formulas	Create a template and test it utilizing dummy data	Microsoft Office XP Introductory Concepts and Techniques (South-Western Publishing 2003)	 Oral quiz True/false, multiple choice, and short answer questions
B. Formatting the TemplateCustomized format codes	Format the template to match predetermined specifications	 IBM compatible computer Microsoft Windows XP and 	ProjectLabs
C. Creating a WorkbookDrilling an entryReferencing and copying cells in other worksheets	Modify the various worksheets and use sheet references	Office 2003 software Student computer data files	Test-conceptsTest-applications
D. Drawing a 3-D Cone ChartWordArt chart title	Create a complete chart that illustrates trends shown in the worksheets		Remediation: Reread project
E. Change the Header and Page Formatting	Modify the page setup		Review and edit projectApply your knowledge
F. Page Breaks	Create deliberate breaks in copy		Enrichment:
G. Find and Replace	Alter existing text in a mass update		Cases and places
H. Consolidating Data by Linking WorkbooksUpdating links	Consolidate data from the other worksheets onto a total worksheet using linking		

Business Education Planned Course: Microsoft Excel - Grades 9-12					