WAYNESBORO AREA SCHOOL DISTRICT CURRICULUM

COURSE NAME: Computer Applications 8							
UNIT: Check Writing NO. OF DAYS: 4							
	KEY LEARNING(S): Budgeting, Personal Finance, Money Management						
	UNIT ESSENTIAL QUESTIONS: How do I write a check and keep track of my money in a bank?						
COMPETENCY	COMPETENCY: Students will be able to complete a deposit slip						
	Write a check						
Record a transaction in a check register							
Maintain a correct balance in the check register Reconcile and account							
		Reconcile a	and account				
STANDARD	CONCEPTS Eligible Content & Skills	# OF DAYS	ESSENTIAL QUESTIONS A = Acquisition ET = Extended	RESOURCES/ MATERIALS	TIER 2 VOCABULARY	TIER 3 VOCABULARY	
11.9.B Explain the responsibilities associated with managing personal finances	managing personal finances	4	Thinking What are the tasks required to maintain a checking account? How does an individual reconcile a checking account with his/her bank? What is the relationship between an individual, a checking account, and a bank?	Computer Projector Vision Software Lesson Handout Student files Paper Printer	 Check number Written and numerical amounts Memo line Signature line Routing number Account number 		
	E: Computer Applications	8					
UNIT: Program		o (dog! to f	function in a computer.	world	NO. OF DAYS: 20		
	KEY LEARNING(S): Learning to program a 'dog' to function in a computer world						
UNIT ESSENTIAL QUESTIONS: What is programming and what is the connection between humans and computers? COMPETENCY: Students will be able to explain the commands Karel can be given							
will learn about Karel's 'World' and the ways that Karel can interact with it. teach new words or commands through the use of functions							

STANDARD	CONCEPTS	# OF	RESOURCES /	TIER 2	TIER 3
 15.4.12.H Use programming language to develop logical thinking and problem solving skills 15.4.12.I Compare and contrast programming language 15.4.12.J Create a complex computer program to solve a problem 	 Eligible Content & Skills Understand what functions are for and how using them improves programs Explain the importance of writing readable code, and analyze and compare readability of different programs Break a large problem down into smaller pieces Write methods to solve each smaller problem Solve a complicated problem using Top Down Design Identify good and poor decomposition Explain preconditions and post conditions of a function Create clear and readable comments in code that help the reader 	21	MATERIALS Computer Projector Vision Software Lesson Handout Student files Paper Printer	 VOCABULARY World Command Curly Bracket Decompose Indentation Decomposition Precondition Comment Postcondition Loop Parentheses Condition Syntax 	 VOCABULARY Camel Case Karel Call a function Define a function Function Body Start Function Top Down Design SuperKarel For Loop Control Structure If Statement If Else Statement While Loop Fencepost Problem

 understand the code Explain the purpose Create for loops to repeat code a fixed number of times Explain when a for loop would be 	
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Explain when a	
Explain when a	
for loop would be	
a useful tool	
Utilize for loops to	
write program that	
would be	
difficult/impossible	
without loops	
Use conditions to	
gather information	
about Karel's	
word	
Create if	
statements to	
execute code if a	
certain condition	
is true	
Explain the	
purpose of an	
If/Else statement	
Create If/Else	
statements to	
solve new types	
of problems	
Identify when an	
If/Else statement	
is appropriate to	
be used	
Explain the	
purpose of a	
while loop	
Create while	
loops to repeat	

 code while a condition is true Utilize while loops to solve new types of problems Test solutions on different worlds Combine control structures to solve complicated problems Choose the proper control structure for a given problem 			
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