COURSE NAME: Computer App	olications 8						
UNIT: Check Writing				NO. OF DAYS: 4			
KEY LEARNING(S): Budgeting, UNIT ESSENTIAL QUESTIONS:			of my money in a bank?				
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							
CONCEPT	FORMATIVE ASSES	FORMATIVE ASSESSMENTS		SUGGESTED INSTRUCTIONAL ACTIVITIES			
Responsibilities and consequence associated with managing persor finances		Vocabulary activities		Use online check writing activities			
COURSE NAME: Computer Ap	plications 8						
UNIT: Programming Karel NO. OF DAYS: 20							
KEY LEARNING(S): Learning							
UNIT ESSENTIAL QUESTIONS:				s 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							
CONCEPT	FORMATIVE ASSESSMENTS	SUM	MATIVE ASSESSMENTS	Use www.CodeHS.com to complete			
<ul> <li>Understand what functions are for and how using them improves programs</li> <li>Explain the importance of writing readable code, and analyze and compare readability of different programs</li> <li>Break a large problem down into smaller pieces</li> </ul>	Videos Example Programs	Quiz Exercise	S	assignments/exercises/assessments			

<ul> <li>Write methods to solve each smaller problem</li> <li>Solve a complicated problem using Top Down Design</li> <li>Identify good and poor</li> </ul>	
each smaller problem  • Solve a complicated problem using Top  Down Design	
Solve a complicated problem using Top     Down Design	
problem using Top Down Design	
Down Design Down Design	
decomposition	
Explain preconditions	
and post conditions of a	
function	
Create clear and	
readable comments in	
code that help the	
reader understand the	
code	
Explain the purpose	•
Create for loops to	
repeat code a fixed	
number of times	
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		
<ul> <li>Utilize while loops to</li> </ul>		
solve new types of		
problems		
<ul> <li>Test solutions on</li> </ul>		
different worlds		
<ul> <li>Combine control</li> </ul>		
structures to solve		
complicated problems		
Choose the proper control		
structure for a given problem		