

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	BME	Course:	Video Game Design and Marketing	Unit 2 Title:	Game Engines, Programs, Basic Commands	Grade Level(s):	9-12
Assessed Trimester:	A	Pacing:	4-6 Days	Date Created:	4/23/2014	Last Revision Date:	

Course Understandings: <i>Students will understand that:</i> <ul style="list-style-type: none">Writing programing code is essential in designing effective 3D programs.The organization of basic elements is important in creating a well-designed program.

DESIRED RESULTS (Stage 1) - WHAT WE WANT STUDENT TO KNOW AND BE ABLE TO DO?

Established Goals	
<ul style="list-style-type: none">Information Technology IV. Input Technologies: Use various input technologies to enter and manipulate information appropriately.	
Transfer	
Students will be able to independently use their learning to: (product, high order reasoning) <ul style="list-style-type: none">Use basic programming techniques and commands to create a simple two dimensional program as a precursor to creating a video game	
Meaning	
Unit Understanding(s): Students will understand that: <ul style="list-style-type: none">Game engines are made up of different components that make the development of a video game easierDark Basic Pro has basic functions and commandsProgram structure is essential to the design of a good programDo Loops are an important part of programming and allow the program to do many different thingsDebugging or eliminating errors is an important step in designing an effective program	Essential Question(s): Students will keep considering: <ul style="list-style-type: none">How do I create a program?What commands should I use?
Acquisition	
Knowledge - Students will: <ul style="list-style-type: none">Describe or define the purpose of the intended command (i.e. TEXT,etc...)Understand proper syntax for the programming language being used Reasoning - Students will: <ul style="list-style-type: none">Organize code based on proper program structureAnalyze code to determine outcomes	Skills - Students will: <ul style="list-style-type: none">Create a program to produce the desired output.

Common Misunderstandings <ul style="list-style-type: none">It is not important where I put commands in a computer programGrammar or Syntax is not important when writing computer programs	Essential new vocabulary <ul style="list-style-type: none">SyntaxGame Engines<ul style="list-style-type: none">RendererCuller3D World Generator
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	<ul style="list-style-type: none">● Programming Commands<ul style="list-style-type: none">○ Remark○ Print○ Text○ Center Text○ Set Text<ul style="list-style-type: none">■ Font■ Size■ Bold/Italic/BoldItalic■ Opaque■ Transparent■ Normal○ CLS RGB○ Ink RGB○ Wait Key○ Do/Loop