

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	BME	Course:	Video Game Design and Marketing	Unit 5 Title:	Game Worlds, Objects, Cameras	Grade Level(s):	9-12
Assessed Trimester:	A	Pacing:	8-10 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">Computation I. Mathematical Foundations: Apply basic mathematical operations to solve problems.Computation II. Number Relationships and Operations: Solve problems involving whole numbers, decimals, fractions, percents, ratios, averages, and proportions.Computation III. Patterns, Functions, and Algebra: Use algebraic operation to solve problems.Computation VI. Problem Solving Applications: Use mathematical procedures to analyze and solve basic business problems.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">Apply computational skills and advanced programing commands to produce an introductory 3D game	
Meaning	
Unit Understanding(s): Students will understand that: <ul style="list-style-type: none">Video game developers use 2D and 3D ways when creating video gamesDifferent objects may be created and coloredPlacing objects on the different axes (x, y, z) will define their 3D worldCamera placement is essentialAnimated objects will make their game more interesting	Essential Question(s): Students will keep considering: <ul style="list-style-type: none">What is the difference between 2D and 3D?What objects can I make?How do I color an object?How do I get my camera to follow my player?How can I put a model into my game?
Acquisition	
Knowledge - Students will: <ul style="list-style-type: none">Know and understand the X, Y, Z axesRecognize and understand the code to load and color objectsUnderstand how to position a camera Reasoning - Students will: <ul style="list-style-type: none">Analyze code to determine outcomes	Skills - Students will: <ul style="list-style-type: none">Create a 3D game worldGenerate or create objects within the worldUse code to properly position the camera in world

Common Misunderstandings <ul style="list-style-type: none">• Which axis should be used when positioning objects in my world• Objects must have a unique ID number• Color codes must follow RGB format	Essential new vocabulary <ul style="list-style-type: none">• RGB - Red, Green, Blue• CLS - Clear Screen• ID Number• X, Y, Z Axes• Animated Objects• Command• Camera
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