

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	BME	Course:	Video Game Design and Marketing	Unit 6 Title:	Input, Collision, Texture, Sound	Grade Level(s):	9-12
Assessed Trimester:	A	Pacing:	5-6 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">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.Information Technology XI. Programming and Application Development: Design, develop, test, and implement programs.	
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 intermediate level 3D game with multimedia effects	
Meaning	
Unit Understanding(s): Students will understand that: <ul style="list-style-type: none">Game designers offering the player the chance to control the game is very importantCollision detection is detecting when collision spaces touchTextures are images that are applied to objects to make the game more realisticSound and music are important aspects of a well received video game	Essential Question(s): Students will keep considering: <ul style="list-style-type: none">What type of input or control do players want?What type of sound, music, and image files can I use?How do I keep my player and camera in my game world?
Acquisition	
Knowledge - Students will: <ul style="list-style-type: none">Know how to load images, sounds, and music into their gameKnow and understand how to give the player input controlsKnow and understand the 3D X, Y, Z axes to define collisions Reasoning - Students will: <ul style="list-style-type: none">Analyze code to determine outcomes	Skills - Students will: <ul style="list-style-type: none">Write code to put textures on objectsWrite code to insert music and/or soundsDevelop collision on different objects

Common Misunderstandings <ul style="list-style-type: none">Music and sound are the same type of filesIt is easy to keep the player inside the worldSound and music can be saved into the same folder	Essential new vocabulary <ul style="list-style-type: none">CollisionInputsTexturesType of image files (bitmap, jpeg, gif)
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	<ul style="list-style-type: none">• EXE• Types of Sound/Music files (mp3, wav, midi)
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