BLACKHAWK SCHOOL DISTRICT

CURRICULUM

Course Title: 8th Grade CATS
Grade Level(s): Grade 8
Length of Period: 42 minutes
Length of Course: 14 Weeks ~~ 70 days
Faculty Author(s): Darlene Martin
Date: February 2013

COURSE DESCRIPTION: The 8th Grade CATS program is a graded course which will review and introduce the 8th grade students to computer productivity, programming software and on-line Web 2.0 tools available. Students will also be introduced to what programs are offered at the high school in the business education department.

PA Standard	Description
15.4.8.A	Analyze the influence of emerging technologies on daily life.
15.4.8.B	Interpret and apply appropriate social, legal, ethical, and safe behaviors of digital citizenship.
15.4.8.C	Compare and contrast peripheral devices of computing systems for specific needs.
15.4.8.D	Create projects using emerging input technologies.
15.4.8.E	Explain the different operating systems
15.4.8.F	Identify network communication technologies
15.4.8.G	Create an advanced digital project using appropriate software/application for an authentic task.
15.4.8.H	Explain difference between a scripting language and a coding language
15.4.8.I	Solve a problem with an algorithm
15.4.8.J	Explain the basic difference between encoding and decoding
15.4.8.K	Create a multimedia project using student-created digital media.
15.4.8.L	Evaluate the accuracy and bias of online sources of information; appropriately cite online resources
15.4.8.M	Explore and describe how emerging technologies are used across different career paths

Class Resources
Current Microsoft Office 2013 Word, Excel, PowerPoint and Publisher, GameStar Mechanic, Scratch 2.0, Weebly

Course Topic	Proposed Time	Topic Reflection
Review of Word, Excel, and PowerPoint/Publisher/Multimedia	**10 Days**	As a review, students will type a small two page document(s) in Word with cited sources. As a review, students will create a PowerPoint presentation that includes hyperlinks and action buttons. As a review, students will complete several Excel documents with formulas and charting and files related to sorting. As a review, students will complete a Publisher project with desktop publishing concepts. Students will add multimedia aspects to their projects (video, audio)
Review skills taught in order to be proficient with Word, Excel and PowerPoint from 6th and 7th grade.		

Course Topic	Proposed Time	Topic Reflection
Introduction to Programming	**25 Days**	
Students will learn Scratch 2.0 **Students will learn Gamestar Mechanic** **Students will use Gamestar Mechanic to complete the Real Robots of Robot High challenge**		

Course Topic	Proposed Time	Topic Reflection
Cyber bullying/Internet Safety	**5 Days**	**Common Sense Unit #3 topics include** **Trillon Dollar Footprint** **Identifying High Quality Sites** **Reality of Digital Drama** **Cyberbullying: Crossing the line** **Rework, Reuse, Remix**
Review with students Internet Safety and Cyber bullying rules using Common Sense Media lessons		

Course Topic	Proposed Time	Topic Reflection

Web 2.0 Resources/Multimedia	**10 Days**	**Possible examples:** **Students will add a project to a wiki page.** **Students will use a comic strip generator (ComicMaster) to discuss cyber bullying.** **Students will create a video project in Animoto** **Students will use QR Codes to create a research project**
▪ **Students will use several Web 2.0 resources to create projects.**		

Course Topic	**Proposed Time**	**Topic Reflection**
I-Pad Activities	**5 Days**	
▪ **Students will use apps available on the I-Pads**		

Course Topic	**Proposed Time**	**Topic Reflection**
Publisher/Desktop Publishing	**8 Days**	**Creating and design a sign.** **Formatting a for sale/help wanted sign using "tear-offs"** **Create a return address label with image.** **Create a public service bill board.** **Create a sign for a school event in the future.**
• **Understand terminology for a desktop publishing program including symmetrical vs. asymmetrical layouts, serif vs. san serif fonts,** • **Students will create projects via simple signs to multi-page brochures**		

Course Topic	**Proposed Time**	**Topic Reflection**
Web Page Design	**10 Days**	
• **Create and edit web pages using basic HTML programming language.** • **Create and edit a web page via Weebly to show how pages are made in a CSS/Theme based design system.**		

Course Topic	**Proposed Time**	**Topic Reflection**

Intro to Accounting, Marketing, and Entrepreneurship	2 Days	Show and discuss video from B. Bacu regarding accounting
- Explore the profession of an Accountant and understand what an account does for the purpose of a possible career in accounting. - Explore the profession a Marketer and understand the various options in the Sports and Entertainment field of Marketing. - Understand what Entrepreneurship is and the possibilities of owning your own business. - Understand the various business education course offerings at the High School		Show and discuss video about Marketing/Entrepreneurship