CCSD K8 TECHNOLOGY SCOPE AND SEQUENCE (2009r.)

STANDARD 1: DEMONSTRATES BASIC OPERATION AND COMPUTER CARE

Benchmark 1: Uses the computer, computer tools, and materials in an appropriate and safe manner.

Measuring 8th grade technology proficiency skills are mandated by the state of Iowa

Nomenclature in Red refers to existing objectives in the K12 CCSD curriculum

Objectives:

Grade: 6-8	Grade: 3-5
1. Uses and can correctly identify technology terminology appropriately. **assessed by 6th grade teachers**	1. Students can identify, give meaning, and explain the purpose of the following technology terms: keyboard, CPU, DVD, mouse, printer, monitor, program icon, cursor, desktop, trash can, scroll bar, and CD Rom Drive. **assessed by 3rd grade classroom teacher**
2. Demonstrate how to save and retrieve to a specific folder independently. **assessed by 6th grade teachers** 2a. Demonstrate proficiency with all types of word-processing skills. **assessed by 6-8 teachers** 2b. Demonstrate proficiency with all types of editing skills used with word-processing. (68mr s3b1o1a) **assessed by 7-8 teachers**	2. Demonstrate the ability to find a file/folder and a document. **assess by 4th grade classroom teacher** 2a. Demonstrate the ability to change text formats, save/open previously created documents and use the cut/paste/delete keys. **assessed by 4th grade classroom teacher** 2b. Demonstrate editing skills by indent spacing, formatting, and spell check. (35mr s3b1o1a) **assessed by 5th grade classroom teacher**
3. Summarize the organizational concept behind using files and folders. **assessed by 6th grade teachers**	3. Demonstrate the ability to locate a menu bar and successfully put in an URL address to access a website. **assessed by 4th grade classroom teacher**
4. Demonstrates proper keyboarding technique while working on typing proficiency. **assessed by all 8 teachers**	4. Demonstrates the use of special keys **assessed by 5th grade classroom teacher**
5. Utilize curriculum-specific software and peripheral devices when appropriate (camera, graphing calculator, scientific peripherals, microscopes, etc...) across all curricular areas. **assessed by 7-8 teachers**	5. Demonstrate the proper use of curriculum-specific software. **assessed by all classroom 3-5 classroom teachers and TEP**
6. Demonstrate cropping, other graphic formatting, and saving using a computer-based program. **assessed by 6th grade teachers**	6. Demonstrate how to format a picture utilizing a computer-based program for use in a publication. **assessed by 5th grade classroom teacher**
7. Demonstrate moving textual and graphics data from one	7. Demonstrate how to construct a bar graph utilizing a

document to another. **assessed by 6th grade teachers**	computer-based program. **assessed by 5th grade soc. st., sci., and math**
8. Demonstrate importing pictures, images, and charts into documents. **assessed by 7-8 teachers**	8. Demonstrate how to construct a table utilizing a computer-based program. **assessed by 4th grade soc.st., sci., and math**

Grade: K - 2

1. Identify the following technology components: keyboard, mouse, printer, monitor, program icon, cursor, desktop, trash can, scroll bar, and CD-ROM drive. **assessed by classroom teacher**
2. Show how to open/quit application, manipulate the mouse and the keyboard and turn on/wake-up the computer. **assessed by classroom teacher**
3. Demonstrate how to type and draw utilizing programs on the computer. **assessed by classroom teacher**
4. Demonstrate proper posture and use the shift keys for capital letters. **assessed by classroom teacher**
5. Utilize curriculum-specific software. **assessed by classroom/TEP teachers**
6. Demonstrate how to save a file/picture on the computer. **assessed by TEP**
7. Identify the axis on a computer graph. **assessed in math grade 2**
8. Demonstrate how to fill in the blanks on a computer table. **assessed in math grades 1 and 2**

STANDARD 2: EXHIBITS PROPER SOCIAL AND ETHICAL BEHAVIOR IN THE USE OF TECHNOLOGY

Benchmark 1: Demonstrates ethical behavior in the application of the process utilized to access information.

Objectives:

Grade: 6-8	Grade: 3-5
1. Applies respectful and responsible use of technology abiding within the guidelines established by the CCSD board policies. **accessed by all 6-8 teachers**	1. Demonstrates positive and ethical behaviors when using technology in accordance with district technology and internet policy. **assessed by all 3-5 teachers**
2. Applies ethical behavior in the process used to access information. (6ss s4b2o1) **assessed by 8th grade teachers** 2a. Demonstrates an understanding of plagiarism and fair use, copyright laws of information producers, such as authors and artists. (68mr s3b2o1) (68mr s3b2o1a) **assessed by 8th grade social studies teachers** **assessed by music/art teachers** 2b. Demonstrates the use of proper citation format and copyright procedures for all pieces of information using a computer-based citation program. (68mr s3b2o1) (68la rsb3o5b) **assessed by 8 language arts teachers**	2. Demonstrates the understanding and consequences of plagiarism in all types of information and student-made products. (35mr s3b2o1) (4ss s4b1o2) **assessed by 4 social studies** 2a. Distinguishes between an original and a plagiarized product. (35mr s3b2o1a) (4ss s4b1o2) **assessed by 4th social studies** 2b. Demonstrates citing sources of information. **assessed by art/music teachers** **assessed by 3-5 language arts teachers**
3. Give examples of responsible uses of technology information and the consequences of inappropriate use. (i.e. research, sharing of personal information, sexual predators) **assessed by 6th and 8th grade social studies teachers** **assessed by wellness teachers** **assessed by guidance counselors**	3. Generate a list of safety guidelines when using the internet. (sharing of personal information, cyber-bullying, strangers) **assessed by guidance counselors** **assessed by wellness teachers** **(All teachers having the students use the internet should mention the need for internet safety.)**
4. Demonstrate knowledge of current practices and changes in informational technology and the effect those changes will have on the workplace and society. **accessed by 6 social studies teachers**	

Grade: K - 2

1. Complies with using, opening/closing programs and websites only under the direct instruction of the teacher. **assessed by K-2 classroom teacher**
2. Demonstrates an understanding of what constitutes an original product. (K2mr s3b2o1a) **assessed by K-2 classroom teacher** 2a. Identify the name of the computer programs and acknowledge the source of information in that program. (K2mr s3b2o1a) **assessed by K-2 classroom teacher**
3. Distinguish between the positives and negatives of computer use. **assessed by K-2 classroom teacher**

STANDARD 3: USES TECHNOLOGY AS A TOOL FOR PRODUCTIVITY

Benchmark 1: Applies the basic sequence of procedures, methods, and processes used in basic computer use.

Objectives:

Grade: 6-8	Grade: 3-5
1. Demonstrate word-processing skills by using the word processor editing features to write papers, create products, and use in presentations. (68mr s3b1o1a) **assessed by all 8 core teachers**	1. Use the word processor editing features to write papers and create products. (35mr s3b1o1a) **assessed by classroom teacher**
2. Demonstrates database and spreadsheet skills by manipulating data into table/graph format. (67m s5b1o2), (68sci s1b3o5), (8cte indtech semploy b1o1) **assessed by 8 grade sci, math, and Indus. teach** 2a. Demonstrate classifying collected data and construct a simple database by defining fields, entering and sorting data, and producing a report. (8sci s1b3o5), (7m s5b1o3 and o4) **assessed by 7 grade math**	2. Demonstrate entering data into a table/graph format. **assessed in 5 math** 2a. Utilize a database or table in the production of a report or presentation. (3sci s1b3o5), (5sci s1b3o5), (3m s5b1o1b) **assessed in 5 science**
3. Select and demonstrate the use of a computer-based graphical organizational program to construct outlines or other graphics that organize ideas and information. (68mr s1b2o1), 6-8 cte indtech semploy b1o1) **assessed by industrial tech**	3. Use a computer-based graphical organizational program to organize ideas. **assessed by TEP**
4. Designs a multimedia production through the use of paint, draw, or graphics packages to create simple visual aids. **assessed by 6-7 social studies**	4. Design simple graphics to use in a student report or product. **assessed by 5 social studies**
5. Design a simple Web page designed to convey information regarding a specific academic content area topic. **assessed by 7 science**	

Grade: K - 2

1. Generate a picture using a computer-based program for classroom work. (K2mr s3b1o1) **assessed by classroom teacher**
2. Demonstrate entering information into a data field. (1m s5b1o1b), (2sci s1b3o5) **assessed by 2 science**
3. Specify where computer-based graphical organizational formats are found on the computer. **assessed by TEP**

STANDARD 4: DESIGNS, DEVELOPS, PUBLISHES, AND PRESENTS PRODUCTS THAT DEMONSTRATE AND COMMUNICATE.

Benchmark 1: Gather and communicate information through effective planning and presentation skills.

Objectives:

Grade: 6-8

1. Plan, design, and deliver a presentation using media and technology appropriate to topic, audience, and purpose or content. (68mr s3b1o1) **assessed by 8th grade core**
2. Demonstrates interpersonal skills by collaborating and publishing in the use of technology with peers, experts, and/or other audiences. (68mr s3b3o1), 68sci s1b5o1), (68art s1b1o2) **assessed by 8 science**
3. Establishes, applies and reflects upon the criteria in judging the technical quality and the effectiveness of the content and technology in a production or presentation. (68music s3b3o1) **assessed by 8 social studies**

Grade: 3-5

1. Generates and presents a multi-media product. (35mr s3b1o1) **assessed by 5th grade TEP**
2. Plans, collaborates and presents a production where each member or members of the community (class) develops ideas and information, assume roles, and contributes to the final product. (35mr s3b3o1), 35sci s1b5o2) **assessed by TEP**
3. Constructs and applies an evaluation tool that judges the quality and effectiveness of a student technology production or presentation. (35music s3b3o1) **assessed by music**

Grade: K - 2

1. Generates a simple picture presentation using presentation software. (K2mr s3b1o1) **assessed by TEP**
2. By using technology, demonstrate that individuals and teams can contribute significantly to the success of the community (classroom). (K2mr s3b3o1), (K2 sci s1b5o1), (K2art s1b1o2) **assessed by 1-2 classroom**
3. Generates criteria for evaluating the quality of a student technology product. (K2music s3b3o1) **assessed by TEP**

STANDARD 5: SELECTS AND USES APPROPRIATE TOOLS AND TECHNOLOGY RESOURCES TO ACCOMPLISH A VARIETY OF TASKS.

Benchmark 1: Refine technical skills required to apply technology in studying and solving problems.

Objectives:

Grade: 6-8 **Grade: 3-5**

1. Demonstrates effective search strategies in accessing information from diverse Internet resources (i.e. search engines, directories, almanacs, encyclopedias, indexes, online catalogs, and data-bases. (68mr s2b1o1), (68la rsb3o5a), (68mr s1b1o1), (68 rsb3o1) **assessed in all 7-8 core**	1. Demonstrate the use of online resources to locate and disseminate needed information. (35mr s1b3o1) **assessed by TEP**
2. Distinguishes between credible and non-credible sources of internet information. (68mr s2b1o2), (68la rsb3o2) **assessed in 8 language arts**	2. Applies criteria for determining the credibility of internet resources. (35mr s1b3o1), (45la rsb3o2) **assessed in TEP**
3. Appraises and selects appropriate technical resources by determining author's bias or point of view. (68mr s2b1o2) **assessed in 8 language arts**	3. Selects a technical resource for a specific need and/or purpose. (35mr s1b3o1), (35la rsb3o5a) **assessed in language arts**

Grade: K - 2

1. Utilize age-appropriate software/internet sites to gain information. (K2mr s3b1o1) **assessed by classroom teacher**
2. Knows that published text/pictures are not always true or accurate. (K2mr s3b1o1a) **assessed by classroom teacher**
3. Locates several types of resources on the computer. (K2mr s1b3o1) **assessed by TEP**

STANDARD 6: UTILIZES APPROPRIATE TOOLS TO PROCESS INFORMATION, EVALUATE RESOURCES, PROBLEM-SOLVE, AND TO COMMUNICATE RESULTS.

Benchmark 1: Apply technology to process information; solve problems, and report results utilizing the CCSD media research methodology.

Objectives:

Grade: 6-8 **Grade: 3-5**

1. Evaluates and selects several resources from a variety of information sources by based upon the needs and or purpose of a posed problem or task. (68mr s1b1o2), (78la rsb3o3) **assessed by 6-8 science**	1. Selects technical resources based upon the needs and or purpose of the posed problem or task. (35mr s1b3o1), (35la rsb3o5a) **assessed by 5 classroom**
2. Plan, design, and create a research report based upon the CCSD media research components. (Define the information/need, Select Resources, Evaluate resources/Refocus the search/Extract relevant information, Format information, and Evaluate & Reflect) (68mr s3b1o1), (78la wsblo1a) **assessed in 7-8 language arts**	2. Creates a report based upon the need or purpose of the posed problem or task. (35mr s3b1o1) **assessed by 5 science**
3. Applies technology resources (graphing calculators, probes, microscopes, internet, and software programs) for problem-solving, self-directed learning, and extended learning activities. (7sci s4b2o3a1), (6sci s2b1o1a), (7sci s3b2o2.1), (8sci s4b4o2), (78sci s3b1o8), (7sci s3b2o2a), (8sci s4b4o7), (7sci s3b3o1), (6sci s4b1o1b), (6sci s3b3o1) **assessed in 6-8 science**	3. Applies curriculum-based software for problem-solving, self-directed learning, and extended learning activities. **assessed by TEP**

Grade: K - 2

1. Selects a resource to use for technical research. (K2mr s1b3o1) **assessed by classroom teacher**
2. Generates a procedure for locating information on a computer. **assessed by TEP**
3. Applies curriculum-based software for problem-solving, self-directed learning, and extended learning activities. **assessed by TEP**