

# Technology Curriculum

## GRADE 4

### STANDARD 1

#### BASIC OPERATIONS AND CONCEPTS

The student will be able to demonstrate basic operations and concepts involving computer applications, hardware, and/or software.

To meet this standard, the student will:

**Benchmark 4.1.1:** Use input and output devices to successfully operate technology efficiently and effectively

**Indicators:**

- 4.1.1.1 Use special keys on keyboard (shift, tab, spacebar, return, etc.) (M)
- 4.1.1.2 Use audio and video devices as appropriate for projects with teacher supervision (R)
- 4.1.1.3 Demonstrate good form and accuracy in keyboarding (R)

**Benchmark 4.1.2:** Use a variety of technology resources for directed and independent learning

**Indicators:**

- 4.1.2.1 Locate and access computer and network directories (R)
- 4.1.2.2 Move between active applications (I)

**Benchmark 4.1.3:** Communicate about technology using appropriate and accurate terminology

**Indicators:**

- 4.1.3.1 Verbalize the process of using a specific application (M)
- 4.1.3.2 Explain initial concept of network connectivity and their computer to people and computers elsewhere (I)
- 4.1.3.3 Discuss common uses of technology in daily life and the advantages and disadvantages it provides (I)

**Benchmark 4.1.4:** Apply strategies for identifying and solving routine hardware and software problems that occur during everyday use.

**Indicator:**

N/A

*Key: 1 = Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator*

*I = Introductory Understanding R = Reinforcement and Development of Understanding M = Mastery of Use  
SCS Curriculum, Technology, Grade 4, Approved Jan. 2007, Revised Sept. 2011*

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## GRADE 4

### STANDARD 2

#### SOCIAL, ETHICAL AND HUMAN ISSUES

The student will develop an understanding ethical, cultural, and societal issues related to technology and its safe use.

To meet this standard, the student will:

**Benchmark 4.2.1:** Develop an understanding of ethical, cultural, and societal issues related to technology and its safe use

**Indicators:**

- 4.2.1.1 Show respect for privacy/ownership (M)
- 4.2.1.2 Acknowledge/reference the work of others (R)
- 4.2.1.3 Demonstrates compliance with Acceptable Use Policy (R)
- 4.2.1.4 Describe personal consequences of inappropriate use of technology and information through biblical understanding (R)
- 4.2.1.5 Explain and use accepted rules of netiquette when communicating with others (I)
- 4.1.2.6 Discuss basic issues related to responsible use of technology and information (I)

**Benchmark 4.2.2:** Practice responsible use of technology systems and software

**Indicators:**

- 4.2.2.1 Demonstrate good stewardship through proper care of equipment, software, etc. (R)
- 4.2.2.2 Recognize and respond appropriately to material or messages that are inappropriate or potentially compromise their safety (R)

**Benchmark 4.2.3:** Work cooperatively and collaboratively with peers when using technology in the classroom

**Indicators:**

- 4.2.3.1 Share ideas and skills related to technology with others (R)
- 4.2.3.2 Share resources through collaborative use of computers and other technology equipment (R)

**Benchmark 4.2.4:** Use developmentally appropriate resources to support learning

**Indicators:**

- 4.2.4.1 Demonstrate initial search strategies for finding information (R)
- 4.2.4.2 Use hyperlinks in CD's and web pages (I)

**Benchmark 4.2.5:** Demonstrate knowledge of current changes in information technologies and the effect those changes have on society

**Indicator:**

N/A

*Key: 1. Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator*

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## STANDARD 3

### TECHNOLOGY PRODUCTIVITY TOOLS

The student will use technology tools to enhance learning, increase productivity, and promote creativity.

To meet this standard, the student will:

**Benchmark 4.3.1:** Use a variety of media, productivity tools, technology resources, and peripherals for directed and independent learning activities to support personal productivity, skill deficits, and facilitate learning throughout the curriculum

**Indicators:**

- 4.3.1.1 Use word processing (R)
- 4.3.1.2 Use desktop publishing (R)
- 4.3.1.3 Use databases and spreadsheets to organize and analyze information (R)
- 4.3.1.4 Use multimedia authoring to create presentations (R)
- 4.3.1.5 Use web browser (R)
- 4.3.1.6 Use web browser independently to navigate and use educational and biblical resources on the internet (I)

**Benchmark 4.3.2:** Create developmentally appropriate products with support from teachers, family members, or student partners for problem solving, communication, and illustration of thoughts, ideas, and stories

**Indicators:**

- 4.3.2.1 Use problem-solving, logical, and critical thinking software programs (R)
- 4.3.2.2 Use word processing to create formatted documents (R)

**Benchmark 4.3.3:** Use content specific tools, software and simulations to support learning and research.

**Indicator:**

- 4.3.3.1 Demonstrate appropriate educational sites through use of a web browser (I)
- 4.3.3.2 Use an online encyclopedia to gather information (I)

*Key: 1. Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator*

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## GRADE 4

### STANDARD 4

#### TECHNOLOGY COMMUNICATION TOOLS

**The student will** use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

To meet this standard, the student will:

**Benchmark 4.4.1:** Gather information and communicate with others using technology, with support from teachers, family members, or student partners

**Indicators:**

- 4.4.1.1 Use email (teacher-directed; group/class account) (R)
- 4.4.1.2 Use web browser (basic use including hyperlinks, forward, back, home, entering URL's) (R)
- 4.4.1.3 Use web based communication tools under direct teacher supervision (I)

**Benchmark 4.4.2:** Use technology tools for individual and collaborative writing, communication, and publishing activities to design, develop, and publish products for audiences inside and outside the classroom that demonstrate and communicate curriculum concepts.

**Indicators:**

- 4.4.2.1 Use word processing to create formatted documents (R)
- 4.4.2.2 Use desktop publishing to create text and graphics (R)
- 4.4.2.3 Use multimedia authoring to create presentations (R)
- 4.4.2.4 Use web browser independently to navigate and use educational resources on the Internet (R)
- 4.4.2.5 Use email (R)
- 4.4.2.6 Use databases and spreadsheets to organize and analyze information (R)

**Benchmark 4.4.3:** Use technology efficiently and effectively to access remote information and communicate with others in support of direct or independent learning.

**Indicators:**

- 4.4.3.1 Use email (R)
- 4.4.3.2 Use web based communication tools under direct teacher supervision (I)
- 4.4.3.3 Use web page/site to explore and complete projects (I)

**Key:** 1 Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator

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## GRADE 4

### STANDARD 5

#### TECHNOLOGY RESEARCH TOOLS

**The student will** use technology to locate, evaluate, and collect information from a variety of sources.

To meet this standard, the student will:

**Benchmark 4.5.1:** Use telecommunications and online resources to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside the classroom.

**Indicators:**

- 4.5.1.1 Communicate with project participants using email and other means of electronic communication (I)
- 4.5.1.2 Use web search strategies to gather relevant information (R)
- 4.5.1.3 Evaluate information gathered from various resources on the internet for credibility and accuracy (I)

**Benchmark 4.5.2:** Determine which technology is useful and select the appropriate tools and technology resources to address a variety of tasks and problems.

**Indicators:**

- 4.5.2.1 Analyze and critically evaluate resources (I)
- 4.5.2.2 Discriminate between internet, email, and other technologies with teacher direction (R)
- 4.5.2.3 Evaluate appropriate use of internet and traditional sources (I)
- 4.5.2.4 Select appropriate search resources and software programs for the intended purpose (I)

**Benchmark 4.5.3:** Use technology resources for gathering and collecting information

**Indicators:**

- 4.5.3.1 Use DVD, CD-ROM, etc (M)
- 4.5.3.2 Use electronic library tools (I)

**Key:** 1 Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator

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## STANDARD 6

### TECHNOLOGY PROBLEM SOLVING AND DECISION MAKING TOOLS

The student will use technology resources for solving problems and making informed decisions to real world problems.

To meet this standard, the student will:

**Benchmark 4.6.1:** Use technology resources for problem solving, communication, self-directed learning, and illustration of thoughts, ideas, and stories.

**Indicators:**

- 4.6.1.1 Use problem-solving, logical, and critical thinking software programs (R)
- 4.6.1.2 Use devices for data collection activities (R)

**Benchmark 4.6.2:** Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real world problems.

**Indicators:**

- 4.6.2.1 Compare results from two or more search resources with teacher direction (I)
- 4.6.2.2 Evaluate information gathered from the internet for accuracy, relevance, appropriateness to Christian ideals, with teacher direction (I)