

## K-12 TECHNOLOGY Standards/Benchmarks/Grade Level Expectations (GLE)

*Updated 1-16-07*

### Standard 1: Demonstrate an understanding of the basic operations and concepts of technology.

#### Interval Benchmark 1: Demonstrate a sound understanding of the nature and operation of technology systems.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Communicate about technology using developmentally appropriate and accurate terminology.	a. Communicate about technology using developmentally appropriate and accurate terminology.	a. Communicate about technology using developmentally appropriate and accurate terminology.	a. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.	a. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.	a. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.

#### Interval Benchmark 2: Demonstrate proficiency in the use of technology.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Use input devices and output devices.	a. Use input devices and output devices.	a. Use input devices and output devices.	a. Use keyboards and other common input and output devices efficiently and effectively.	a. Use keyboards and other common input and output devices efficiently and effectively.	a. Use keyboards and other common input and output devices efficiently and effectively.
b. Use a variety of media and technology resources for directed and independent learning activities.	b. Use a variety of media and technology resources for directed and independent learning activities.	b. Use a variety of media and technology resources for directed and independent learning activities.	b.	b.	b.
c. Use developmentally appropriate multimedia resources to support learning.	c. Use developmentally appropriate multimedia resources to support learning.	c. Use developmentally appropriate multimedia resources to support learning.	c.	c.	c.

### Standard 2: Demonstrate an understanding of the importance of respectful and responsible use of technology in society.

#### Interval Benchmark 1: Understand the ethical, cultural, and societal issues related to technology.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5

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a. Demonstrate positive social and ethical behaviors when using technology.	a. Demonstrate positive social and ethical behaviors when using technology.	a. Demonstrate positive social and ethical behaviors when using technology.	a.	a.	a.
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### Interval Benchmark 2: Practice responsible use of technology systems, information, and software.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Practice responsible use of technology systems and software.	a. Practice responsible use of technology systems and software.	a. Practice responsible use of technology systems and software.	a. Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.	a. Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.	a. Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.

### Interval Benchmark 3: Develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Work cooperatively and collaboratively with peers, family members, and others when using technology in the classroom.	a. Work cooperatively and collaboratively with peers, family members, and others when using technology in the classroom.	a. Work cooperatively and collaboratively with peers, family members, and others when using technology in the classroom.	a. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.	a. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.	a. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.

### Standard 3: Use technology to process and present information.

#### Interval Benchmark 1: Use technology tools to enhance learning, increase productivity, and promote creativity.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Use a variety of media and technology resources for directed and independent learning activities.	a. Use a variety of media and technology resources for directed and independent learning activities.	a. Use a variety of media and technology resources for directed and independent learning activities.	a. Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.	a. Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.	a. Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.

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b. Create developmentally appropriate multimedia products with support from teachers, family members, or student partners.	b. Create developmentally appropriate multimedia products with support from teachers, family members, or student partners.	b. Create developmentally appropriate multimedia products with support from teachers, family members, or student partners.	b.	b.	b.
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### Interval Benchmark 2: Use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use general-purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.	a. Use general-purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.	a. Use general-purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.

### Standard 4: Use technology to research, solve problems and make decisions.

### Interval Benchmark 1: Use technology to locate, evaluate, and collect information from a variety of sources.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.	a. Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.	a. Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.

### Interval Benchmark 2: Use technology tools to process data and report results.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a.	a.	a.	a.	a.	a.
b.	b.	b.	b.	b.	b.
c.	c.	c.	c.	c.	c.

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d.	d.	d.	d.	d.	d.
e.	e.	e.	e.	e.	e.
f.	f.	f.	f.	f.	f.

### Interval Benchmark 3: Evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a.	a.	a.	a. Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems.	a. Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems.	a. Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems.

### Interval Benchmark 4: Use technology resources for solving problems and making informed decisions.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a.	a.	a.	a. Use technology resources for problem solving, self-directed learning, and extended learning activities.	a. Use technology resources for problem solving, self-directed learning, and extended learning activities.	a. Use technology resources for problem solving, self-directed learning, and extended learning activities.

### Interval Benchmark 5: Employ technology in the development of strategies for solving problems in the real world.

Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a.	a.	a.	a. 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.	a. 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.	a. 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.

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<b>Standard 5: Use technology to communicate and interact in a global community.</b>					
<b>Interval Benchmark 1: Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.</b>					
Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Gather information and communicate with others using telecommunications, with support from teachers, family members, or student partners.	a. Gather information and communicate with others using telecommunications, with support from teachers, family members, or student partners.	a. Gather information and communicate with others using telecommunications, with support from teachers, family members, or student partners.	a. Use telecommunications efficiently and effectively to access remote information, communicate with others in support of direct and independent learning, and pursue personal interests.	a. Use telecommunications efficiently and effectively to access remote information, communicate with others in support of direct and independent learning, and pursue personal interests.	a. Use telecommunications efficiently and effectively to access remote information, communicate with others in support of direct and independent learning, and pursue personal interests.
b.	b.	b.	b. 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.	b. 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.	b. 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.
<b>Interval Benchmark 2: Use a variety of media and formats to communicate information and ideas effectively to multiple audiences.</b>					
Grade Level Expectations K	Grade Level Expectations 1	Grade Level Expectations 2	Grade Level Expectations 3	Grade Level Expectations 4	Grade Level Expectations 5
a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories.	a. Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.	a. Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.	a. Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.