

## **KINDERGARTEN**

### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during kindergarten based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall Know Them*, Lorraine Ozar. Because of students' developmental levels, not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). **The Iowa Core Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may be appropriate at a given grade level, but by the time a student reaches second grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)  
TEC1.1 Knows how to power-up computer, monitor, and start a computer program  
TEC1.2 Knows and is able to use the computer keyboard  
TEC1.3 Knows proper finger placement on home-key rows
2. Knows the characteristics and uses of computer software programs (NETS 6)  
TEC2.1 Practices responsible use of technology systems and software
3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5,)  
TEC3.1 Works cooperatively and collaboratively with peers, family members, and others when using technology in the classroom.  
TEC3.2 Demonstrates positive social and ethical behaviors when using technology.
4. Understands the nature of technological design (NETS 2, 4, 5) - NA
5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6) - NA
6. Understands the nature and uses of different forms of technology (NETS 3, 6) – NA

## **GRADE ONE**

### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during grade one based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall Know Them*, Lorraine Ozar. Because of students' developmental levels, not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). **The Iowa Core Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may**

**be appropriate at a given grade level, but by the time a student reaches second grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)  
TEC1.1 Knows how to power-up computer, monitor, turn on printer, and start a computer program  
TEC1.2 Knows and is able to use the computer keyboard  
TEC1.3 Uses input devices (e.g., mouse, keyboard, remote control) and output devices (e.g., monitor, printer) to successfully operate computers, VCRs, audio tapes, and other technologies.
2. Knows the characteristics and uses of computer software programs (NETS 6)  
TEC2.1 Practices responsible use of technology systems and software  
TEC2.2 Knows proper finger placement on home-key rows  
TEC2.3 Types on a computer keyboard using correct hand position and body position  
TEC2.4 Uses menu options and commands
3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5.)  
TEC3.1 Works cooperatively and collaboratively with peers, family members, and others when using technology in the classroom.  
TEC3.2 Demonstrates positive social and ethical behaviors when using technology.
4. Understands the nature of technological design (NETS 2, 4, 5)  
TEC4.1 Knows how to use simple graphics
5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6)  
TEC6.1 Creates and tests a simple linear system
6. Understands the nature and uses of different forms of technology (NETS 3, 6) – NA

## **GRADE TWO**

### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during grade two based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond

with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The

number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall*

*Know Them*, Lorraine Ozar. Because of students' developmental levels, not all standards are addressed at every grade level. If a

standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). **The Iowa Core**

**Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may**

**be appropriate at a given grade level, but by the time a student reaches second grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)  
TEC1.1 Knows how to power-up computer, monitor, turn on printer, and start a computer program  
TEC1.2 Knows and is able to use the computer keyboard

TEC1.3 Uses input devices (e.g., mouse, keyboard, remote control) and output devices (e.g., monitor, printer) to successfully operate computers, VCRs, audio tapes, CD Roms and other technologies.

2. Knows the characteristics and uses of computer software programs (NETS 6)

TEC2.1 Practices responsible use of technology systems and software

TEC2.2 Knows proper finger placement on home-key rows

TEC2.3 Types on a computer keyboard using correct hand position and body position

TEC2.4 Uses menu options and commands, e.g., printing

3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5,)

TEC3.1 Works cooperatively and collaboratively with peers, family members, and others when using technology

TEC3.2 Demonstrates positive social and ethical behaviors when using technology.

4. Understands the nature of technological design (NETS 2, 4, 5)

TEC4.1 Knows how to use simple graphics

5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6)

TEC5.1 Creates and tests a simple linear system and understands a process

6. Understands the nature and uses of different forms of technology (NETS 3, 6)

TEC6.1 Knows that communication technology allows people to exchange and find information quickly, cheaply, and reliably over a distance

### **GRADE THREE**

#### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during grade three based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall Know Them*, Lorraine Ozar. In grades 3-12, the ITBS/ITED grade level expectations for reading, math, and science promulgated at the beginning of the 2003-04 school year by the Department of Education are noted in italics. Because of students' developmental levels, not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). **The Iowa Core Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may be appropriate at a given grade level, but by the time a student reaches fifth grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)

TEC1.1 Knows and is able to properly use the more advanced features of the computer keyboard

TEC1.2 Uses proper fingering for all keys, beginning from home row, maintaining proper posture while using the keyboard

TEC1.3 Uses input devices (e.g., mouse, keyboard, remote control) and output devices (e.g., monitor, printer) to successfully operate computers, VCRs, audiotapes, CDs, and other technologies.

TEC1.4 Applies technology skills\*

2. Knows the characteristics and uses of computer software programs (NETS 6)  
 TEC2.1 Practices responsible use of technology systems and software  
 TEC2.2 Uses a word processor to edit, copy, move, save and print text with some formatting, e.g., centering lines, using tabs, forming paragraphs  
 TEC2.3 Knows basic features of databases  
 TEC2.4 Uses menu options and commands
3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5,)  
 TEC3.1 Works cooperatively and collaboratively with peers, family members, and others when using technology  
 TEC3.2 Effectively uses media resources to gather information\*  
 TEC3.3 Demonstrates positive social and ethical behaviors when using technology, e.g., illegally copying software, software piracy, copyright laws\*  
 TEC3.4 Effectively uses media resources to display information\*  
 TEC3.5 Knows areas in which technology has improved human lives, e.g., transportation, nutrition, health care, entertainment
4. Understands the nature of technological design (NETS 2, 4, 5)  
 TEC4.1 Knows how to use simple graphics  
 TEC4.2 Evaluates product and design and makes modifications
5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6)  
 TEC5.1 Gathers information and communicate with others using telecommunications, with support from teachers, family members, or student partners.
6. Understands the nature and uses of different forms of technology (NETS 3, 6)  
 TEC6.1 Uses technology productivity tools to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.  
 TEC6.2 Uses telecommunications efficiently and effectively to access remote information

## **GRADE FOUR**

### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during grade four based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall Know Them*, Lorraine Ozar. In grades 3-12, the ITBS/ITED grade level expectations for reading, math, and science promulgated at the beginning of the 2003-04 school year by the Department of Education are noted in italics. Because of students' developmental levels, not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). **The Iowa Core Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may be appropriate at a given grade level, but by the time a student reaches fifth grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)

TEC1.1 Knows and is able to properly use the more advanced features of the computer keyboard

TEC1.2 Uses proper fingering for all keys, beginning from home row, maintaining proper posture while using the keyboard

TEC1.3 Use keyboards and other common input and output devices (including adaptive devices when necessary) efficiently and effectively

TEC1.4 Learns to use scanner

TEC1.5 Applies technology skills\*

2. Knows the characteristics and uses of computer software programs (NETS 6)

TEC2.1 Practices responsible use of technology systems and software

TEC2.2 Uses a word processor to edit, copy, move, save and print text with some formatting, e.g., centering lines, using tabs, forming paragraphs

TEC2.3 Learns basic word processing skills in order to print a document containing a paragraph

TEC2.4 Knows basic and more advanced features of databases

TEC2.5 Uses menu options and commands

TEC2.6 Uses the keyboard to open and close application and retrieve, save, and print documents

TEC2.7 Contributes to a group/teacher made presentation program

TEC2.8 Defines the basic elements of a multimedia presentation

TEC2.9 Places text into a simple, static screen

TEC2.11 Uses grade appropriate software

3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5,)

TEC3.1 Works cooperatively and collaboratively with peers, family members, and others when using technology

TEC3.2 Effectively uses media resources to gather information\*

TEC3.3 Demonstrates positive social and ethical behaviors when using technology, e.g., illegally copying software,

software piracy, copyright laws\*

TEC3.4 Discuss basic issues related to responsible use of technology and information and describe personal

consequences of inappropriate use

TEC3.5 Effectively uses media resources to display information\*

TEC3.6 Knows areas in which technology has improved human lives, e.g., transportation, nutrition, health care, entertainment

TEC3.7 Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide

4. Understands the nature of technological design (NETS 2, 4, 5)

TEC4.1 Knows how to use graphics

TEC4.2 Evaluates product and design and makes modifications

5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5)

TEC5.1 Gather information and communicate with others using telecommunications, with support from teachers,

family members, or student partners.

6. Understands the nature and uses of different forms of technology (NETS 3, 6)

TEC6.1 Can define how technology is used today in medicine, transportation, banking, agriculture, architecture, etc.

TEC6.2 Uses technology productivity tools to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.

TEC6.3 Uses telecommunications efficiently and effectively to access remote information.

## GRADE FIVE

### Grade Level Expectations

#### Updated for 2009-10 school year

These are the core grade level expectations that should be taught and learned during grade five based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall Know Them*, Lorraine Ozar. In grades 3-12, the ITBS/ITED grade level expectations for reading, math, and science promulgated at the beginning of the 2003-04 school year by the Department of Education are noted in italics. Because of students' developmental levels, not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). **The Iowa Core Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may be appropriate at a given grade level, but by the time a student reaches fifth grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)

TEC1.1 Knows and is able to properly use the more advanced features of the computer keyboard

TED1.2 Uses proper fingering for all keys, beginning from home row, maintaining proper posture while using the keyboard

TEC1.3 Learns to use scanner

TEC1.4 Learns to uses digital camera

TEC1.5 Applies technology skills\*

2. Knows the characteristics and uses of computer software programs (NETS 6)

TEC2.1 Practices responsible use of technology systems and software

TEC2.2 Uses a word processor to edit, copy, move, save and print text with some formatting, e.g., centering lines, using tabs, forming paragraphs

TEC2.3 Learns basic word processing skills in order to print a document containing a paragraph

TEC2.4 Knows basic and more advanced features of databases

TEC2.5 Uses menu options and commands

TEC2.6 Contributes to a group/teacher made presentation program

TEC2.6.1 Defines the basic elements of a multimedia presentation

TEC2.6.2 Places text into a simple, static screen

TEC2.7 Uses grade-appropriate software

3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5,)

TEC3.1 Works cooperatively and collaboratively with peers, family members, and others when using technology

TEC3.2 Effectively uses media resources to gather information\*

TEC3.3 Demonstrates positive social and ethical behaviors when using technology, e.g., illegally copying software, software piracy, copyright laws\*

TEC3.4 Discusses basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use

TEC3.5 Effectively uses media resources to gather and display information\*

TEC3.6 Knows areas in which technology has improved human lives, e.g., transportation, nutrition, health care, entertainment

TEC3.7 Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide

TEC3.8 Understands the history of computers and related careers

4. Understands the nature of technological design (NETS 2, 4, 5)

TEC4.1 Accesses, cuts, copies, and pastes text and clip art

TEC4.2 Evaluates product and design and makes modifications

5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6)

TEC5.1 Gathers information and communicates with others using telecommunications, with support from teachers, family members, or student partners.

6. Understands the nature and uses of different forms of technology (NETS 3, 6)

TEC6.1 Defines how technology is used today in medicine, transportation, banking, agriculture, architecture, etc.

TEC6.2 Uses technology productivity tools to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.

TEC6.3 Uses telecommunications efficiently and effectively to access remote information.

## **GRADE SIX**

### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during grade six based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall Know Them*, Lorraine Ozar. In grades 3-12, the ITBS/ITED grade level expectations for reading, math, and science promulgated at the beginning of the 2003-04 school year by the Department of Education are noted in italics. Because of students' developmental levels, not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). The progress report on PowerSchool Premiere reflects only the course name so no asterisks are noted to align with Progress Report as in grades K-5. **The Iowa Core Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may be appropriate at a given grade level, but by the time a student reaches eighth grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)

TEC1.1 Applies technology skills

TEC1.2 Knows features and uses of current and emerging technology

TEC1.3 Knows limitations and tradeoffs of various types of hardware, e.g., laptops, ibooks, modems

2. Knows the characteristics and uses of computer software programs (NETS 6)

TEC2.1 Practices responsible use of technology systems and software

TEC2.2 Discusses how formats differ among software applications and hardware platforms

TEC2.3 Knows common features and uses of spreadsheet

TEC2.4 Knows common features and uses of desktop publishing

TEC2.5 Contributes to a group/teacher made presentation program

TEC2.5.1 Defines the basic elements of a multimedia presentation

TEC2.5.2 Places text into a simple, static screen

TEC2.6 Uses grade appropriate software

3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5,)

TEC3.1 Knows that technology and science have a reciprocal relationship, technology drives science and vice versa

TEC3.2 Works cooperatively and collaboratively with peers, family members, and others when using technology

TEC3.3 Effectively uses media resources to gather information

TEC3.4 Demonstrates positive social and ethical behaviors when using technology, e.g., illegally copying software, software piracy, copyright laws

TEC3.5 Discusses basic issues related to responsible use of technology and information and describes personal consequences of inappropriate use

TEC3.6 Effectively uses media resources to display information

TEC3.7 Discusses common uses of technology in daily life and the advantages and disadvantages those uses provide

TEC3.8 Understands the history of computers and related careers

4. Understands the nature of technological design (NETS 2, 4, 5)

TEC4.1 Knows that the design process is a slow, methodical process of test and refinement

TEC4.2 Knows that invention is the process of creating a new system or object out of an idea while innovation is the process of modifying an existing system to improve it

TEC4.3 Evaluates product and design and makes modifications

5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6)

TEC5.1 Gathers information and communicates with others using telecommunications, with support from teachers, family members, or student partners.

6. Understands the nature and uses of different forms of technology (NETS 3, 6)

TEC6.1 Uses technology productivity tools to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.

TEC6.2 Uses telecommunications efficiently and effectively to access remote information, e.g. Internet and other online resources

## **GRADE SEVEN**

### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during grade six based on the McRel standards and benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall Know Them*, Lorraine Ozar. In grades 3-12, the ITBS/ITED grade level expectations for reading, math, and science promulgated at the

beginning of the 2003-04 school year by the Department of Education are noted in italics. Because of students' developmental levels, not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked with an NA (not appropriate). The progress report on PowerSchool Premiere reflects only the course name so no asterisks are noted to align with Progress Report as in grades K-5. **The Iowa Core Curriculum essential concepts have been embedded at appropriate places, bolded, and identified with (ICC). Not all ICC may be appropriate at a given grade level, but by the time a student reaches eighth grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)

TEC1.1 Applies technology skills

TEC1.2 Knows features and uses of current and emerging technology

TEC1.3 Knows limitations and tradeoffs of various types of hardware, e.g., laptops, ibooks, modems

2. Knows the characteristics and uses of computer software programs (NETS 6)

TEC2.1 Practices responsible use of technology systems and software

TEC2.2 Discusses how formats differ among software applications and hardware platforms

TEC2.3 Uses advanced features and utilities of word processors, e.g., clip art, grammar checker, thesaurus, outliner

TEC2.4 Knows common features and uses of spreadsheet and database

TEC2.5 Knows common features and uses of desktop publishing

TEC2.6 Contributes to a group/teacher-made presentation program

TEC2.7 Defines the basic elements of a multimedia presentation - knows common features of presentation

TEC2.8 Contributes to various group presentations, e.g., web quest presentation

TEC2.9 Places text into a simple, static screen

TEC2.11 Uses grade appropriate software

3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5,)

TEC3.1 Knows that technology and science have a reciprocal relationship, technology drives science and vice versa

TEC3.2 Works cooperatively and collaboratively with peers, family members, and others when using technology

TEC3.3 Effectively uses media resources to gather information

TEC3.4 Demonstrates positive social and ethical behaviors when using technology, e.g., illegally copying software,

software piracy, copyright laws

TEC3.5 Discusses basic issues related to responsible use of technology and information and describes personal

consequences of inappropriate use

TEC5.6 Effectively uses media resources to display information

TEC5.7 Discusses common uses of technology in daily life and the advantages and disadvantages those uses

provide

TEC5.8 Understands the history of computers and related careers

4. Understands the nature of technological design (NETS 2, 4, 5)

TEC4.1 Knows that the design process is a slow, methodical process of test and refinement

TEC4.2 Knows that invention is the process of creating a new system or object out of an idea while innovation is

the process of modifying an existing system to improve it

TEC4.3 Implements and evaluates product and design and makes modifications

5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6)

TEC5.1 Gathers information and communicates with others using telecommunications, with support from teachers, family members, or student partners

6. Understands the nature and uses of different forms of technology (NETS 3, 6)

TEC6.1 Uses technology productivity tools to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum

TEC6.2 Uses telecommunications efficiently and effectively to access remote information, e.g. Internet and other online resources

## **GRADE EIGHT**

### **Grade Level Expectations**

#### **Updated for 2009-10 school year**

These are the core grade level expectations that should be taught and learned during grade eight based on the McRel standards and

benchmarks. They are written from the student point of view. Local sites may add additional grade level expectations to correspond with their curriculum. These grade level expectations are aligned with McRel standards and the standards-based progress report. The

number listed is in reference to McRel 3rd edition; the number listed for Religion standard is in reference to *By Their Fruits You Shall*

*Know Them*, Lorraine Ozar. In grades 3-12, the ITBS/ITED grade level expectations for reading, math, and science promulgated at the beginning of the 2003-04 school year by the Department of Education are noted in italics.

Because of students' developmental levels,

not all standards are addressed at every grade level. If a standard is not appropriate at a given grade level, it is omitted or it is marked

with an NA (not appropriate). The progress report on PowerSchool Premiere reflects only the course name so no asterisks are noted to

align with Progress Report as in grades K-5. **The Iowa Core Curriculum essential concepts have been embedded at appropriate**

**places, bolded, and identified with (ICC). Not all ICC may be appropriate at a given grade level, but by the time a student**

**reaches eighth grade, all the primary ICC core concepts will have been taught.**

**TECHNOLOGY** - References McRel with new NETS standards, updated June, 2007; see standard listing

1. Knows characteristics and computer hardware and operating systems (NETS 6)

TEC1.1 Applies technology skills

TEC1.2 Knows features and uses of current and emerging technology

TEC1.3 Knows limitations and tradeoffs of various types of hardware, e.g., laptops, ibooks, modems

TEC1.4 Applies strategies for identifying and solving routine hardware and software problems that occur during everyday use (NETS 1)

2. Knows the characteristics and uses of computer software programs (NETS 6)

TEC2.1 Practices responsible use of technology systems and software

TEC2.2 Discusses how formats differ among software applications and hardware platforms

TEC2.3 Uses advanced features and utilities of word processors, e.g., clip art, grammar checker, thesaurus, outline

TEC2.4 Knows common features and uses of spreadsheet and database

TEC2.5 Knows common features and uses of desktop publishing

TEC2.6 Contributes to a group/teacher-made presentation program

TEC2.6.1 Defines the basic elements of a multimedia presentation

TEC2.6.2 Knows common features of presentations

TEC2.6.3 Places text into a simple, static screen

TEC2.6.4 Contributes to group-made video presentations

TEC2.7 Uses grade appropriate software

3. Understands relationships among science, technology, society, and the individual (NETS 1, 2, 3, 4, 5)

TEC3.1 Knows that technology and science have a reciprocal relationship, technology drives science and vice versa

TEC3.2 Demonstrates knowledge of current changes in information technologies and the affect those changes have

on the workplace and society

TEC3.3 Works cooperatively and collaboratively with peers, family members, and others when using technology

TEC3.4 Effectively uses media resources to gather and display information

TEC3.5 Demonstrates positive social and ethical behaviors when using technology, e.g., illegally copying software,

software piracy, copyright laws

TE3C3.6 Researches and evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of

electronic sources concerning real world problems

TEC3.7 Discusses common uses of technology in daily life and the advantages and disadvantages those uses

provide

TEC3.8 Uses content-specific tools, software, and simulations, e.g., environmental probes, graphing calculators,

exploratory environments, web tools to support learning and research

TEC3.9 Designs, develops, publishes, and presents products using technology resources that demonstrate and

communicate curriculum concepts to audiences inside and outside the classroom

4. Understands the nature of technological design (NETS 2, 4, 5)

TEC4.1 Knows that the design process is a slow, methodical process of test and refinement

TEC4.2 Knows that invention is the process of creating a new system or object out of an idea while innovation is

the process of modifying an existing system to improve it

TEC4.3 Implements and evaluates product and design and makes modifications

5. Understands the nature and operation of systems (NETS 1, 2, 3, 4, 5, 6)

TEC5.1 Gathers information and communicates with others using telecommunications, with support from teachers,

family members, or student partners

TEC5.2 Demonstrates an understanding of concepts underlying hardware, software, and connectivity and of

practical applications to learning and problem solving

6. Understands the nature and uses of different forms of technology (NETS 3, 6)

TEC6.3 Uses technology productivity/multimedia/peripheral tools to support personal productivity, group

collaboration, and facilitate learning throughout the curriculum.

TEC6.4 Uses telecommunications efficiently and effectively to access remote information, e.g. Internet and other

online resources