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K to the 8th Power

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*Lab directors and teachers now have access to comprehensive technology courseware that reinforces state and national academic standards. This software bridges the gap between what is taught in the classroom and what students do in a typical school computer lab.*

## FEATURES

**Technology Education**

**Standards-Based Curriculum**

**Easy-to-Use**

**Fun for Students**

**Flexible Lesson Formats**

**Student Tracking and Reporting**

**Designed for Technology Coordinators and Lab Directors**

Many additional computer literacy goals are met with the K to the 8th Power curriculum at the fourth grade level. These computer literacy goals are met as students work through exercises on a computer. Academic content is reinforced as students go through these activities.

Computer literacy areas covered include computer occupations, comprehensive use of word processors and spreadsheet programs, computer network basics, search engines, databases, and basic troubleshooting principles.

The majority of exercises that students perform while learning about computers also connect back to objectives of standards-based tests. As students learn about technology, they also enhance their academic abilities in math, reading and written language.

The software is easy to administer, easy-to-use, and fun for students. Lessons are made up of easy-to-follow instructions in a wide variety of formats. Games, puzzles, labs and activities are all developed to keep the students interest while developing computer literacy skills.

The software also comes with a built-in mechanism for tracking student progress through each subject and each grade level. Teachers can monitor their students performance as they move through the curriculum with an easy-to-use Learning Management System (LMS).

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*For specific information about the fourth grade curriculum and more detail about product features, read on!*



Lesson Name	Academic Summary	Technology Summary
<b>Adding and Subtracting Whole Numbers</b>	In this lesson students use information from a fifty states Web site to solve addition and subtraction problems with whole numbers. Students are shown how to solve math problems using interesting facts and information from different states.	Students will copy and paste an assignment document into a new Microsoft Excel spreadsheet document. They will visit a Census Bureau Web site to find information about their state and bordering states. Students will enter information from the Web site into their spreadsheet and answer questions about the data.
<b>Answer Factual Questions on Literature</b>	Students learn how to find the answers to factual questions in literature. They are given tools to help them find answers. The lesson asks questions on various reading selections to give students practice.	Students use Microsoft Word to answer questions based on a reading passage given to them. They use the Word highlighting tool to highlight each of their five answers.
<b>Division of Two-Digit and Three-Digit Numbers</b>	This lesson reviews the definition of division, dividend, divisor, remainder, and quotient. Students are shown examples of word problems using division and how to divide using two and three digit numbers.	Students print an activity page of six division problems. They solve each of the division problems and check their work for errors.
<b>Drawing Conclusions</b>	This lesson teaches students how to draw conclusions from reading materials. Students will practice drawing conclusions and then write a paragraph about conclusions.	Students will create an "I Spy" presentation using Microsoft PowerPoint. They will create slides with clues about something they can see in the room. Students will take turns presenting their clues and the class will draw conclusions based on the clues.
<b>Editing Aesop's Fables</b>	Students learn how to edit stories using proofreading skills and word processing tools. Students will edit two of Aesop's Fables.	Students will copy and paste selected text from the lesson into a Microsoft Word document. They will change the font color of all grammar and spelling errors to red. Students will use the Spelling and Grammar Check feature of Word to correct the errors.
<b>Equivalent Fractions</b>	Students review the concept of fractions and equivalent fractions. At the end of the lesson students will be able to identify equivalent fractions and use the information to answer quiz questions.	Students create a table in Microsoft Word with four columns and six rows. They use their computer calculator to cross multiply and solve several problems. Once finished they save and print their work.
<b>Folk Tales</b>	This lesson teaches about folk tales. The term is defined and examples of common folk tales are given. Students visit Web sites that contain folk tales. Students learn about the characters, settings, and themes of folk tales. There is a game to test knowledge of the lesson content.	Students use Microsoft Word to diagram a folk tale. Once the diagram is complete, they write a short folk tale and save and print their work.
<b>Functional Words - Bank</b>	Students will learn eight bank words: teller, money, coins, bills, building, checkbook, ATM, and piggy bank. They will see two pictures of each word and hear four sentences describing the pictures. The functional word is highlighted in red in each sentence. Students play matching games to review and practice what they have learned.	Students will create a PowerPoint presentation using words from the lesson and pictures from the K to 8 Resource Library. Students copy pictures and paste them into PowerPoint slides and write sentences for each picture.

Lesson Name	Academic Summary	Technology Summary
<b>Functional Words - Church</b>	Students will learn eight church words: pews, pulpit, pastor, priest, cross, organ, piano, and stained glass window. They will see two pictures of each word and hear four sentences describing the pictures. The functional word is highlighted in red in each sentence. Students play matching games to review and practice what they have learned.	Students will use Kid Pix to create a picture of a stained glass window. They will find the "Color Me" background picture of a stained glass window and use patterns, gradients, and colors from the paint bucket to design the window.
<b>Functional Words - Gas Station</b>	Students will learn eight gas station words: tire, gas pump, car, oil, tow truck, car wash, snacks, and cash register. They will see two pictures of each word and hear four sentences describing the pictures. The functional word is highlighted in red in each sentence. Students play matching games to review and practice what they have learned.	Students will use the Blank Page in Microsoft Publisher. They will fill their page with pictures gathered from the Clip Art Gallery. They will then use the text box tool to write the name of each picture. Finally, they will arrange the pictures and the text boxes on the page.
<b>Functional Words - Mall</b>	Students will learn eight mall words: stores, shopping, ATM, escalator, restaurant, people, shopping bags, and money. They will see two pictures of each word and hear four sentences describing the pictures. The functional word is highlighted in red in each sentence. Students play matching games to review and practice what they have learned.	Students will use the Blank Page in Microsoft Publisher. They will fill their page with pictures gathered from the Clip Art Gallery. They will then use the text box tool to write the name of each picture. Finally, they will arrange the pictures and the text boxes on the page.
<b>Identify Words - Math Vocabulary</b>	This lesson teaches students fifteen math vocabulary words. Students learn to spell and use the words, plus they learn how to make the symbols in the word processor.	Students will use Microsoft Word to create a document with a two-column table. They will have a column with a math symbol and one with the math term. The students will write sentences using the math terms in this lesson.
<b>Identify Words From Defining Statement</b>	Students will learn how to define words using the context clues in sentences. They will practice defining words when a dictionary is not available.	Using Microsoft Word, students highlight parts of several sentences that give clues about the definition of a word they must define. They also use <a href="http://dictionary.com">dictionary.com</a> to look up the words and type in definitions.
<b>Line and Bar Graphs</b>	This lesson will introduce students to line and bar graphs. They will learn the definition of chart, data, and graph. Students are shown graphs and will answer questions based on information from those graphs. Students will gather information and make their own line and bar graphs.	Students will visit a Census Bureau Web site. They will gather population data on their state and four other states. Students will create line and bar charts in Microsoft Excel with their information.
<b>Make Inferences</b>	Students learn how to make inferences from various reading selections. The lesson concentrates on literature and students apply what they learn about inferences in a project.	Students copy and paste questions into Microsoft Word. Students then create bullet points under each question and answer each of the questions given.
<b>Multiplication of Two-Digit Numbers</b>	In this lesson students will learn to multiply two-digit and three-digit numbers. They will practice their multiplication facts and use information from a clothing Web site to write and solve multiplication problems.	Using Microsoft Word, students write three word problems using data from the <a href="http://oldnavy.com">oldnavy.com</a> clothing store. Students switch papers with another student to solve each other's word problems.
<b>Nouns and Pronouns</b>	The students will review nouns and pronouns. The students will review the importance of using exact nouns to make writing more interesting. The students will play several interactive games to reinforce their understanding of nouns and pronouns. In the activity the students will identify nouns and pronouns in sentences, and write sentences with pronouns and exact nouns.	The students will copy and paste sentences into a Microsoft Word document. They will identify the nouns and change the font color of the nouns. They will identify pronouns and change them to exact nouns using a blue font. The students will write three sentences using pronouns and three sentences using exact nouns.

Lesson Name	Academic Summary	Technology Summary
<b>Points, Lines, Segments, and Rays</b>	In this lesson students will learn about points, lines, line segments, and rays. Each of these geometric shapes is reviewed and students play several games to make sure they can identify each shape.	Students will use Microsoft Word to draw different types of lines and segments. Students are shown how to use the Drawing Toolbar to create the lines.
<b>Punctuation Marks</b>	Students review the correct usage of punctuation marks. This lesson covers the period, question mark, exclamation point, comma, and quotation marks.	Students will create Microsoft PowerPoint slides to demonstrate their understanding of punctuation marks. They will create one slide for each type of punctuation mark in the lesson. Each slide will have five example sentences for that punctuation mark.
<b>Read and Respond to Poetry</b>	This lesson teaches students how to read poetry. They are given several activities in which they can respond to what they read.	Students will use Microsoft Word to copy and paste several questions into their document. Students type in answers in a bold font, save, and print.
<b>Research Computer Jobs</b>	In this lesson the students will be introduced to the Internet as a research tool. The objective will be for the students to learn about jobs that require computers.	Students visit several Web sites and conduct search engine queries to find different careers that require computer skills. Methods of searching are reviewed as well as how to copy and paste information from Web sites that have copyright free information.
<b>Root Words From Science</b>	This lesson teaches root words using science terms. Students learn the value of determining the root of a word to decipher its meaning.	Students will use Microsoft Excel to create a spreadsheet. Students use an online dictionary to look up the root words of 12 science words and type each meaning into specific cells.
<b>Sentence Completion</b>	In this lesson students will review complete sentences. Students will review examples of correct sentences. The lesson will help students distinguish between run-on sentences and sentence fragments.	Students will copy and paste twenty sentences into a Microsoft Word document which are either sentence fragments or run-on sentences. They will identify and correct the sentences. Students will use the edit tracking feature of Word to show their changes.
<b>Solve Money Problems</b>	In this lesson students learn to solve money word problems. Students are shown examples of word problems and learn questions to ask in order to solve those problems. Students write their own money word problems for other students to solve.	Using Microsoft Word, students write three word problems using data from the lesson. Students run the spelling and grammar tool to check for errors. They save and print their work and then switch papers with another student to solve each other's word problems.
<b>States and Capitals</b>	This lesson teaches a student how to identify each of the fifty states and its capital. It also teaches them the abbreviation for each state. Several games are played where students identify the state, the state abbreviation, and the state capital.	Students will use Microsoft Word to write a one-paragraph report about a state of their choice. Included in the report is information and images about the state flower, state animal, state flag, state map, and two interesting facts about the state.
<b>Synonyms</b>	This lesson teaches how to recognize and use synonyms. Students play synonym games and do a practical application activity using their knowledge of synonyms.	Students use Microsoft Word to create a table with four columns and eleven rows. Students copy and paste ten words into the table and then type in a synonym for each word.
<b>Word Problems</b>	This lesson will teach students how to solve word problems using addition, subtraction, multiplication, and division. Students are shown key words that will help them determine which operation to use in solving word problems. Students use information from a candy company Web site to write and solve word problems.	Students will use Microsoft Excel to create and solve word problems. They will visit the Hershey's Chocolate online store and use information from that site to create their own word problems. Students will create word problems using addition, subtraction, multiplication, and division.
<b>Write About Computer Jobs</b>	This lesson teaches students how to write a paragraph using a topic sentence, supporting details, and a closing sentence. Students use the research they did in Research Computer Jobs.	Students will use notes from a previous lesson to write a paragraph about jobs that require computer skills. They will add a photograph to their Microsoft Word document. Students will spell check and proofread their work after adding footnotes.