

Wallenpaupack Area School District

COURSE: Computer Education

GRADE LEVEL: Grade 4

LENGTH OF COURSE:

TEXT:

PUBLISHER:

COPYRIGHT:

COURSE DESCRIPTION:

AREAS OF STUDY:

Literacy
Keyboarding
Instructional Software
Graphic Design
Word Processing
Critical Thinking
Research

CURRICULUM WRITING TEAM:

Donna Bree

DATE OF REVISION:

2006

Wallenpaupack Area School District

Course: Computer Education

Grade Level: Grade 4

Unit: Literacy

PA Standards: 3.7.4.C.2

3.7.4.C.3

Topics:	Skills:
Saving a file to network Accessing/opening a file from its saved location Printing to available network/classroom printers Introduce additional input/output devices, i.e. digital camera and scanner	Save word processing documents and graphics Retrieve saved work from its location, i.e. network Print work to designated printer Demonstrate familiarity with digital camera
Activities:	Performance Assessments:
Demonstrations, lectures and class discussions Teach literacy skills using word processor and graphic software Teach skills necessary to incorporate images from digital camera to word processor, document, and/or graphic project	Teacher observation and classroom progress Completed print jobs Completed project

Wallenpaupack Area School District

Course: Computer Education

Grade Level: Grade 4

Unit: Keyboarding

PA Standards: 3.7.7.C.3

Topics: Proper hand position/home row Number and other letter key locations Introduce the concept of speed and accuracy through keyboarding lessons	Skills: Reinforce home row keys Locate enter, letters, numbers, shift, backspace, arrows, punctuation keys, spacebar, tab Practice moving from the home row to rows above and below
Activities: Demonstration of keyboarding specific software Teach keyboarding skills within the programs, i.e. Animated Typing, Type to Learn, KidKeys, Jump Start Typing, Mavis Beacon	Performance Assessments: Teacher observation and classroom progress Software generated progress reports

Wallenpaupack Area School District

Course: Computer Education

Grade Level: Grade 4

Unit: Instructional Software

PA Standards: 3.7.4.D.1

3.7.4.D.4

3.7.4.E.1

Topics:	Skills:
Mathematical operations: addition, subtraction, multiplication and division Logic and thinking Vocabulary and spelling Social studies/geography	Solve mathematical equations Complete games Solve puzzles Develop map skills Maneuver through adventure software
Activities:	Performance Assessments:
Demonstrations, lectures and class discussion Software such as Math Blaster, Animated Arithmetic, Cluefinders, Oregon Trail, etc. Websites such as Scholastic.com, Timeforkids.com, and funbrain.com	Teacher observations and student progress Software-generated progress reports

Wallenpaupack Area School District

Course: Computer Education

Grade Level: Grade 4

Unit: Graphic Design

PA Standards: 3.7.4.D.1

3.7.4.D.3

3.7.4.D.5

Topics:	Skills:
Create and print a computer-generated graphic Create backgrounds and music Incorporate graphic, backdrop and border into student-selected project Import a digital image from a digital camera or scanner	Use advanced paint tools Design a graphic Modify and manipulate graphics and digital images
Activities:	Performance Assessments:
Review painting and design software (i.e. KidPix, Paint) Demonstrate graphics program (i.e, Print Shop, Publisher) Assign the creation of a graphic Students will use proper paint tools and incorporate required elements Assign incorporation of graphics into existing word processing documents Documents correlate with courses of study in the regular classroom	Teacher observation Completed print job Demonstration of project

Wallenpaupack Area School District

Course: Computer Education

Grade Level: Grade 4

Unit: Word Processing

PA Standards: 3.7.4.D.1

3.7.4.D.2

Topics: Creating documents using a word processor	Skills: Use previously learned keyboarding techniques Use upper and lower case, tab, punctuation, and spacing correctly Change font, size, style and color Introduce cut-paste and copy-paste functions Topic to be in conjunction with classroom work and determined by classroom teacher Develop familiarity with spell check and thesaurus
Activities: Demonstrate word processing technique, tools and formatting for document Utilize word processor such as Word 2K to create a document	Performance Assessments: Teacher observation Completed print job

Wallenpaupack Area School District

Course: Computer Education

Grade Level: Grade 4

Unit: Critical Thinking

PA Standards: 3.7.4.D.4

Topics: Explore activities for comparing, sorting measurement, estimation, addition, subtraction, multiplication and division Initiate student involvement in reading, writing and typing Work independently on related projects Develop logic and reasoning through learning experiences using puzzles, patterns and spatial activities Develop problem solving and critical thinking skills through the use appropriate software	Skills: Motivate and support students as they advance their curriculum skills Practicing reading, writing and typing skills Learning progressions are presented and designed to support student-learned specific skills Emphasize strategies necessary for solving problems involving critical and logistical thinking
Activities: Demonstrations, lectures and class discussions Software including Clue Finders and I Spy applications offer activities at appropriate levels Math Blaster: In Search of Spot, Jump Start and I Spy Spooky Mansion offer modules appropriate for student success Math and reading activity will complement classroom curriculum	Performance Assessments: Teacher observation and student progress

Wallenpaupack Area School District

Course: Computer Education

Grade Level: Grade 4

Unit: Research/Internet

PA Standards: 3.7.4.D
3.7.4.E.1
3.7.4.E.3

Topics:	Skills:
<p>Review of the Internet of connected computers Learning to search the Internet, bookmarking Searching out websites Using Grolier Children's' Encyclopedia and OPAC searches Develop an awareness of copyright law</p>	<p>Help students to understand connectivity of a networked system Help students understand that websites hold key information to subjects Keyword, title, author, subject searches are centered on the computer Integrate with classroom assignments and subjects</p>
Activities:	Performance Assessments:
<p>Library--resources for school topics Museums—art, science, historical connections Aquariums—where would you go for info? Zoo-where would you go for info? Weather—local and national Newspapers Encyclopedias Research activity will incorporate proper copyright procedure</p>	<p>Teacher observation and student progress Completed research document Demonstration of finished project</p>