

Computer Mysteries
Level 2- Adding On: Hardware and Software Magic
Grades 5-12

Project Area Skill (PAS) refers to the subject matter based skill which youth demonstrate in relation to the correlating content standard.

Objectives:

Career Readiness-

- 1. Students will identify their career interests and aptitudes to develop an educational plan which supports personal career goals.**

Benchmarks: 5-8: A; 9-12: E

Project Area Skill: While browsing the internet, creating a newspaper and taking a computer apart the youth will learn valuable skills for entry into post secondary education or a training program in technology.

- 2. Students will utilize and manage resources effectively to produce quality services and products.**

Benchmarks: 5-8: A; 9-12: A,B

Project Area Skill: As they work to take apart a computer the youth will delegate jobs amongst each other to efficiently complete the task. Furthermore the youth will be responsible for completion and verification of each of the workbook activities by having their group leader initial each completed assignment.

- 3. Students will demonstrate the technological knowledge and skills required for future careers.**

Benchmarks: 5-8: A,B; 9-12: A,B,D

Project Area Skill: The youth will use basic computer skills as they use search engines to answer questions in their workbooks. They will also understand how tools help to solve problems while they are dismantling a computer to inspect different parts. Furthermore the youth will gain technological knowledge and skills as they participate in the “Adding On” workbook activities.

4. Students will develop and demonstrate responsible and ethical workplace behaviors.

Benchmarks: 5-8: A,B,C; 9-12: A,B,C

Project Area Skill: As the youth take apart a computer they will work together and delegate tasks among the group. They will also demonstrate positive behaviors as they work with their peers to complete the activities in the workbook.

5. The students will develop effective leadership, interpersonal, and team skills.

Benchmarks: 5-8: C; 9-12: A,C

Project Area Skill: The youth will identify each other's interests and skills by discussing computer tasks and completing questions listed at the end of each activity in their workbooks.

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Objectives:

Language Arts-

- 1. Reading and listening for comprehension: Students will apply strategies and skills to comprehend information that is read, heard and viewed.**

Benchmarks: 5-8: A,B,C,D; 9-12: A,B

Project Area Skill: By creating a newspaper, the youth will utilize the internet and other materials to give them ideas for their articles. Furthermore the youth will use strategies such as the Boolean logic while searching the internet.

- 2. Writing and Speaking for Expression: Students will communicate effectively through speaking and writing.**

Benchmarks: 5-8: B,C; 9-12: C

Project Area Skill: The youth will use proper grammar and format as they complete a “newspaper” for their “Adding On” workbook. They will also use writing skills to express their learning of each activity by competing questions listed at the end of each activity.

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Objective:

Math-

- 1. Data Analysis and Probability: students will understand how to formulate questions, analyze data, and determine probabilities.**

Benchmarks: 5-8: A

Project Area Skill: The youth will learn how to create databases with the software they have available to them. They will learn how to sort out information and keep records.

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Objective:

Science-

Strand III: Science and Society

Standard I: Understand how scientific discoveries, investigations, practices, and knowledge influence, and are influenced by, individuals and societies.

5-8 Benchmarks: I

Project Area Skill: The youth will participate in activities that help to describe the technologies responsible for revolutionizing information processing and communications by learning about computers and the internet.