Computer Mysteries Content Standards

Level 3: Reaching Beyond-The Advanced User
Grades 9-12

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: 9-12: B,E

   Project Area Skill: The youth will gain skills such as building a computer and searching the internet for pricing computer parts. They will also build their own webpage and launch it onto the web. By participating in skills such as these, the youth will demonstrate marketable skills for entry into post secondary education and also learn how they might be able to go into business for themselves.

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

   Benchmarks: 9-12: A,B,C

   Project Area Skill: The youth will create a budget for building a computer by browsing internet sites and documenting the computer parts they need/want. Furthermore the youth will demonstrate time management as well as accomplishing a number of small goals to complete the workbook.

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

   Benchmarks: 9-12: A,B,D

   Project Area Skill: The youth will gain advanced technological skills as they participate in activities such as building computers, creating a webpage and designing a presentation to give to their peers. By participating in these activities the youth will gain valuable skills that will help them discover interests in future career fields.

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

   Benchmarks: 9-12: C

   Project Area Skill: The youth will demonstrate a high level of effort towards accomplishing their goals as they build computers, research information and create presentations. Furthermore the youth will be asked to write reflections at the end of each activity.

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

   Benchmarks: 9-12: A

   Project Area Skill: The youth will identify their individual interests as they work on the activities suggested by the workbook. They will be able to practice a variety of skills and interests as they design web pages, design a presentation and talk to peers about what they have done. Furthermore, the youth will be able to reflect on how they enjoyed the activity with questions listed in the workbook.

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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: 9-12: A,B,C,D

   Project Area Skill: The youth will research information on the internet by reviewing the websites suggested by their workbook. Furthermore, the youth will read step by step directions for creating a spreadsheet and building a computer.

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

   Benchmarks: 9-12: A,B

   Project Area Skill: After completing each activity, the youth will answer the reflection questions in their workbook. The reflection questions will allow the youth understand the full meaning of the activity as well as allow them to bring closure to what they have accomplished. Furthermore, the youth will perform presentations using a power point like program for their peers.

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Objectives:
Science-
Strand I: Scientific Thinking and Practice

Standard I: Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.

9-12 Benchmarks: I

Project Area Skill: The youth will use charts and lists to display their observations such as computer part prices and predictions on what computers will be like in the next 5-20 years.