

Computers

Department H, Division 860

Superintendents - Lori Walla

Jr. Superintendent -

Computer Mysteries - Unit 1

H860999 Computer Level 1. You may choose from any of the following exhibits: Cards for All Occasions, Graphic Illustration, Computer Presentation, Photograph Series, Scrapbook/Poster or Storybook. You need to follow the directions listed in the Computer Level I-Booting Up: Interacting with computers listed on page 50.

Computer Mysteries - Unit 2

H860001* **Computer Application (SF278)** - 4-H exhibitor should use computer application to create a graphic notebook utilizing computer technology. 4-Her may create any of the following: Greeting Card (5 different cards such as birthday, wedding, anniversary, sympathy, get well, or other); Business Card (3 cards for 3 different individuals and businesses); Menu (minimum of 2 pages including short description of foods and pricing); Book Layout (1 book); Promotional Flyer (3 flyers promoting 3 different events); Newsletter (minimum 2 pages); or Other: examples such as precision farming or family business logo, etc. This exhibit consists of a notebook (8.5 x 11 inches) which should include a detailed report describing: (a) the task to be completed, (b) the computer application software required to complete the task, (c) specific features of the computer application software necessary for completing the task, and (d) print out of your project. Project may be in color or black and white.

H860002* **Produce a Computer Slideshow Presentation (SF277)** – Using presentation software. The slideshow for state fair should be emailed to Amy Timmerman at timmerman2@unl.edu before August 15. Files must be saved in a PC compatible format with county name of participant before emailing. All county fair projects with a printout should be saved on a CD Rom to be submitted for county fair. Slideshows should include a minimum of 10 slides and no more than 25. Incorporate appropriate slide layouts, graphics, animations and **audio (music or voice and transition sounds do not count)**. Each slide should include notes for a presenter. All slideshows must be uploaded.

Computer Mysteries - Unit 3

H860004* **Produce an Audio/Video Computer Presentation (SF276)** – Using presentation software a 4-H exhibitor designs a multimedia computer presentation on one topic related to youth. The presentation should be at least 2 minutes in length and no more than 5 minutes in length, appropriate graphics, sound and either a video clip, animation or voice over and/or original video clip. The presentation must be able to be played and viewed on a PC using Windows Media Player, Real Player, iTunes or QuickTime Player.

H860005* **How to STEM (Science, Technology, Engineering, and Math) Presentation (SF276)** – Youth design a fully automated 2 to 5 minute 4-H “how to” video. Submissions should incorporate a picture or video of the 4-Her, as well as their name (first name only), age (as of January 1 of the current year), years in 4-H, and their personal interests or hobbies. Videos should be

designed for web viewing. Any of the following formats will be accepted: .mpeg, .rm, .wmv, .mp4, .ov, .ppt, or.avi.

H860006* **Create a Web Site/Blog or App** (SF275) – Design a simple Web site/blog or app for providing information about a topic related to youth using either software programs such as an HTML editor like Microsoft’s FrontPage or Macromedia’s Dreamweaver, and image editor like IrfanView or GIMP OR online using a WIKI such as Google Sites. If the Web site/blog or app isn’t live include all files comprising the Web site/blog or app should be submitted on a CD-ROM in a plastic case along with the explanation of why the site was created. If developed using a WIKI or other online tool, include a link to the website and explanation of why the site was created.

H860007* **3D Printing Unique Items** – 3D printing uses plastic or other materials to build a 3 dimensional object from a digital design. Youth may use original designs or someone else’s they have re-designed in a unique way. Exhibits will be judged based on the complexity of the design and shape.

- A. 3D Unique Object: 3D objects printed for their own sake. May be an art design, tool, or other object.
- B. 3D printing will include a notebook with the following:
 - a. Software used to create 3D design.
 - b. Design or, if using a re-design, the original design with the youth’s design with changes.
 - c. Orientation on how the object was printed.

H860008* **3D Printing Prototypes** – 3D printing uses plastic or other materials to build a 3 dimensional object from a digital design. Youth may use original designs or someone else’s they have re-designed in a unique way. Exhibits will be judged based on the complexity of the design and shape. 3D objects printed as part of the design process for robot or other engineering project or cookie cutter, be creative. Must include statement of what design question the prototype was supposed to answer and what was learned from the prototype.

- A. 3D printing will include a notebook with the following:
 - a. Software used to create 3D design.
 - b. Design or, if using a re-design, the original design with the youth’s design with changes.
 - c. Orientation on how the object was printed.