Note: This project is available only to 4-H members in those pilot counties who have successfully completed Unit I, "Adventures with Your Camera." Before you enroll in Unit II, "Challenges in Picture-taking," prior approval should be obtained from your adult leader or county Extension agent.

Objectives of the Project:
1. To develop a deeper appreciation for photography as an art and a science.
2. To learn to make good, sharp pictures. (These pictures may be related to other 4-H projects.)
3. To learn to identify and understand the parts of an adjustable camera and the relationship between the size of the lens opening and the shutter speed. (Think how the pupil of your eye changes from light to dark and vice versa).
4. To learn the type of film and the corresponding flash bulbs to select.
5. To increase knowledge and understanding of composition.
6. To understand action and angle in relation to motion.
7. To learn how to evaluate pictures and negatives.

Requirements:
To complete Unit II, Photography project, a member must:
1. Take and submit a minimum of 30 black and white pictures of the following:
   a. Landscapes - 5 pictures
   b. Buildings - 5 pictures
   c. Animals or birds - 5 pictures
   d. People - individuals or groups
   e. Action - 5 individual pictures of different subjects
   f. Sequence - A sequence of 5 pictures of a sunlit subject taken from the same position but at different times during the day.
2. Learn to use the basic parts of an adjustable camera.
3. Keep a record on 30 pictures. (Use additional sheets if more than 30 pictures are included as a part of the records.)
4. Continue filing and caring for your best negatives.
5. Keep a complete record of all expenses on sheet provided.
6. Give a minimum of two demonstrations or illustrated talks (example: How to take action pictures.)
7. Study carefully the section in your member's manual entitled "Learn from your mistakes." Evaluate your series of pictures.
8. Plan and make an exhibit using pictures you made while meeting the requirements for Unit II Photography project.
9. Complete this project record book and give it to your adult leader or county Extension agent for scoring.

Exhibit Suggestions:
1. Select one of the following two possibilities:
   a. Ten pictures on different subjects
   b. Three action pictures; two or more sequence pictures.
2. All photographs must be the result of the 4-H Unit II exhibitor's project work for the current year.
3. Mount all pictures on a single piece of cardboard about 22" x 28" or larger. Use rubber cement. Each picture must have a caption or title.
4. Exhibits can be made for 4-H Club meetings, achievement days, fairs, festivals, etc.
To the 4-H Photography Club Member:

1. This record book contains:
   a. Photography score sheet for 30 pictures.
   b. Brief explanation about the adjustable camera.
   c. Thirty picture record pages (add separate sheet(s) if necessary)
   d. Summary Section, with financial record and explanations.

Keep an up-to-date record on this score sheet. Place your pictures in the book as they are printed, making sure that you complete all information concerning each picture in the space at the top of the record page. One page is reserved for your best picture.

Photography Score Sheet (To Help you evaluate your own work)

After your film has been developed, and prints are made, mount the print in your record book. Label and file the negative in an envelope. Ask your project leader to examine the first few prints and to explain how to check the points listed below. Place an X in the column that applies. (With experience, you should be able to check your own prints; consult your project adult leader for further guidance and accuracy). As you advance in the project, check the quality of your negative against the quality of your print.

<table>
<thead>
<tr>
<th>Points to Score</th>
<th>Picture Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over Exposure</td>
<td>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</td>
</tr>
<tr>
<td>Under Exposure</td>
<td></td>
</tr>
<tr>
<td>Good Exposure</td>
<td></td>
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<tr>
<td>Out of Focus</td>
<td></td>
</tr>
<tr>
<td>Camera Position For Action-Good</td>
<td></td>
</tr>
<tr>
<td>Camera Position For Action-Poor</td>
<td></td>
</tr>
<tr>
<td>Good Outdoor Lighting</td>
<td></td>
</tr>
<tr>
<td>Poor Outdoor Lighting</td>
<td></td>
</tr>
<tr>
<td>Good Flash Lighting</td>
<td></td>
</tr>
<tr>
<td>Poor Flash Lighting</td>
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<tr>
<td>Subject too Far Away</td>
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<tr>
<td>Subject Right Distance</td>
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<td>Subject too Close</td>
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<tr>
<td>Composition Good</td>
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<td>Composition Poor</td>
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<tr>
<td>Story Telling Ability--Good</td>
<td></td>
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<tr>
<td>Story Telling Ability--Poor</td>
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</tbody>
</table>
An adjustable lens camera will greatly increase your picture taking opportunities and enable you to adjust for poor light or fast action. You should understand how these adjustments work.

For example, setting f5.6 lets in twice as much light as f8, and f8 twice as much as f11, and so on. Likewise, a shutter speed of 1/25 of a second lets in twice as much light as a shutter speed of 1/50 of a second and 1/50 lets in twice as much as 1/100, etc. Therefore, the amount of light entering the lens to the film is the same at 1/50 - f16 as it is at 1/100 - f11, or 1/200 - f8.

The smaller the lens opening, the greater the depth of focus. This means that if you are photographing an object close to the camera and want the distant background to be in focus also, you should use a small lens opening (such as f16 or smaller) and adjust the shutter speed so that enough light reaches the film.

The faster the shutter speed, the more motion is stopped. If you use a fast shutter speed, such as 1/200 of a second or faster, you must increase the size of the lens opening to let in enough light to make a picture.
Why I consider this my best picture:

________________________________________________________________________

________________________________________________________________________

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________________________________________________________________________
Record of Picture

Number ______________________ (Corresponds with number on photography score sheet)

Date Taken ____________________ Time of Day ____________________

Light Conditions _______________ Flash __________________________

Film used _______________ Camera ______________________________

Lens Opening _______________ Shutter Speed _______________________

Type of subject _______________________________________________

Purpose of Picture _____________________________________________

This picture could be improved by __________________________________

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_____________________________________________________________

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(Mount picture in space below; use rubber cement)
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Lens Opening Shutter Speed

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<td>Purpose of Picture __________</td>
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</table>

This picture could be improved by __________

(Mount picture in space below; use rubber cement)
**Summary**

(To be filled out after completing the project)

Type of Camera(s) Used __________________________________________

Total Number of pictures taken for this project _________________

Number of Photography Project training meetings held by your club ___; Number you attended __

Have you filed and labeled your negatives? ________ How many? ________

---

**Summary Financial Record**

<table>
<thead>
<tr>
<th>(List all items of expense including equipment purchased.)</th>
<th>$</th>
<th>¢</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film (Size or Number)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Film Developing</td>
<td></td>
<td></td>
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<tr>
<td>Printing of Pictures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Bulbs (Size or Number)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment &amp; Supplies (Cameras, filters, albums, etc.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Costs

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**Demonstration or Illustrated Talk Record**

<table>
<thead>
<tr>
<th>Photography Topic</th>
<th>Date</th>
<th>Attendance</th>
<th>Where Given</th>
<th>Date</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
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**Exhibit Record**

<table>
<thead>
<tr>
<th>What was Exhibited</th>
<th>Where*</th>
<th>Placing</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

* 4-H meetings, fairs, achievement programs, festivals, etc.
1. The things I enjoyed most about this project were:

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

2. The most important things I learned about photography from this project are:

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3. Things I would like to learn more about in photography include:

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4. The most common mistakes I made in taking pictures for this project were:

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5. Things I can do to correct these mistakes in the future are:

_________________________________________________________________________

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_________________________________________________________________________
Explain in essay style what you have learned in Unit II Photography project, "Challenges in Picture-taking." Among other things, include how to use a flash attachment and flash bulbs and the importance of using fresh photo-flash batteries; angle of picture taking in relation to reflective surfaces such as mirrors and windows; and how to eliminate shadows when taking pictures of people standing near a wall. Relate each statement to the use of an adjustable camera.
Awards

You will find much personal satisfaction by completing the required work in your photography project. At all times you should strive to do your best to learn how to take better pictures. You will receive increased enjoyment as you become more competent in using a camera. Personal satisfaction and enjoyment of photography will become a part of your life.

You may receive tangible awards for outstanding accomplishments in the 4-H photography project. Talk with the Extension agents and adult leader in your county about the suggested outline for assembling 4-H achievement records. Other awards are also available.

Prepared by: W. P. Bradley, Associate Extension Editor
R. W. Blanton, Assistant State 4-H Club Agent