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# PHOTOGRAPHY

PROJECT RECORD BOOK

## UNIT III "EXPLORING PHOTOGRAPHY"

Name \_\_\_\_\_ Age \_\_\_\_\_

Address \_\_\_\_\_ County \_\_\_\_\_

Project Leader's Name \_\_\_\_\_ Years in Club Work \_\_\_\_\_

Club Name \_\_\_\_\_ Year 19 \_\_\_\_\_

Organizational Leader's Name \_\_\_\_\_

Record Book 52

November 1965

Agricultural Extension Service, Virginia Polytechnic Institute, Blacksburg, Virginia

## 4-H Photography, Unit III, Project Record Book—"Exploring Photography"

This project is available to 4-H members who have successfully completed Unit II Photography Project, "Challenges in Picture-Taking." Before you enroll in Unit III, "Exploring Photography," prior approval should be obtained from your adult leader or county Extension agent. A member may complete Unit III with a simple camera; however, he will learn much more with an adjustable camera. "Exploring Photography" has been written to help 4-H'ers explore the "hows" and "whys" of the photographic process.

### Objectives of the Project:

1. To develop a deeper appreciation for photography as an art, as a science, and as a means of communication.
2. To develop skills in taking good, sharp pictures. (These pictures may be related to other 4-H projects).
3. To learn how to select the right camera for the job.
4. To increase knowledge about camera adjustments in relation to different types of black and white and color film.
5. To learn more about film choice and film speed. (Black and white, and color.)
6. To understand how to use depth of field in picture taking.
7. To learn how to determine the right lens openings for different film and flash bulb combinations.
8. To increase understanding about fill-in flash, flash indoors, bounce flash, and reflectorless flash using black and white or color film.
9. To learn how to take close-up pictures (less than 5').
10. To increase knowledge about composition and action, using an adjustable camera.
11. To learn the technique of making contact prints.

### Requirements:

(Numbers 1-5 must be completed. Select at least 8 other requirements and complete.)

1. Study carefully the sections in your Member's Manual concerning the "hows" and "whys" of the photographic process.
2. Complete the Photography Quiz listed on pages 4 to 6 in the 4-H Unit III Photography Record Book.
3. Take and submit a minimum of 30 black and white pictures, of which 8 pictures must be from high speed film.

4. Submit a minimum of 8 color slides on reversal film.
5. Of the total number of pictures submitted, include the following black and white:
  - a. A minimum of 1 story-telling sequence of 5 or more pictures
  - b. Five pictures showing good composition
  - c. Five pictures showing action (Use adjustable camera, if possible.)
  - d. Five flash pictures
  - e. Five available light pictures
  - f. Five close-ups
6. Evaluate your pictures, using the Photography Score Card in the Record Book.
7. Keep a record on 30 pictures (use additional sheets if more than 30 pictures are included).
8. Continue filing and caring for your best negatives. Start a slide file.
9. Learn to understand the basic parts of 2 or more different adjustable cameras. Know some of the advantages and disadvantages of each.
10. Give 3 or more demonstrations or illustrated talks. (Example: How to select the right camera for the job.)
11. Plan, make, and place an exhibit. (fair, achievement day, store window display, etc.) The exhibit should include:
  - a. Ten or more black and white prints on different subjects
  - b. Ten or more color prints on different subjects
12. Make at least one contact print.
13. Keep a complete record of all expenses in the space provided in Record Book.
14. Complete this project Record Book and give it to your adult leader or county Extension agent for scoring.
15. Help adult leaders who are working with 4-H members enrolled in Units I and II.
16. Enter a 4-H Photography Achievement Record Book. (Check regulations and suggestions with your adult leader or county Extension agent.)

UNIT III --EXPLORING PHOTOGRAPHY

Photography Quiz

This quiz will serve as a check on your knowledge of Unit III Member's Manual. Read and study the manual before you take the quiz. A few review questions from Units I and II are also included.

1. Scenes having an extreme range of brightness (such as a shot of black Angus cattle on snow) are called \_\_\_\_\_.
2. The ability of film to record both the bright and dark parts of a scene is called \_\_\_\_\_.
3. Color films have (more) (less) exposure latitude than general purpose black and white films.
4. How do you avoid objectional shadows on subjects? \_\_\_\_\_  
\_\_\_\_\_.
5. Lens openings are called \_\_\_\_\_ or \_\_\_\_\_.
6. The smaller the f/stop number, the \_\_\_\_\_ the aperture.
7. Each succeeding higher f/stop number lets in \_\_\_\_\_ as much light as the previous f/stop number.
8. What is used to stop action and control the amount of time that light is permitted to pass through the lens? \_\_\_\_\_.
9. Why use a tripod on time exposures? \_\_\_\_\_  
\_\_\_\_\_.
10. What are "T" and "B" or "L" camera settings used for? \_\_\_\_\_  
\_\_\_\_\_.
11. What are ASA speeds used for? \_\_\_\_\_  
\_\_\_\_\_.
12. What is the ASA index of a medium speed black and white film? (Give a range.)  
\_\_\_\_\_.



Photography Quiz (Continued)

13. Why should most light meters be tilted slightly downward when reading a scene? \_\_\_\_\_.
14. A range of distance within which things look acceptably sharp is called \_\_\_\_\_.
15. If the range of distance you wish to keep in focus from front to back is quite deep, what point in the scene should you focus on? (1/4) (1/3) (1/2) (2/3) or (3/4) of the distance into the scene. (Circle correct answer.)
16. How can you increase depth of field? \_\_\_\_\_.
17. On which source should you base your exposure, main light or fill-in light? \_\_\_\_\_.
18. Name 2 types of color film. \_\_\_\_\_ and \_\_\_\_\_.
19. Where can you find exposure tables for photofloods? \_\_\_\_\_.
20. Which type of bulb should be used with daylight reversal color film-- clear or blue? \_\_\_\_\_.
21. What is the difference between "M" type bulbs and "FP" (focal plane) bulbs? \_\_\_\_\_.
22. What is the correct f/stop if your subject is 10' away and the flash guide number for the film you are using is 110? \_\_\_\_\_.
23. Why use flash outdoors when photographing people in the sun? \_\_\_\_\_.
24. When using bounce flash, how much larger should the lens opening be? \_\_\_\_\_.

Photography Quiz (Continued)

25. The difference between the field of view as seen through the view finder and the size of the image captured by the lens is called \_\_\_\_\_

26. What type of 35 mm or 2-1/4 x 2-1/4 camera allows you to look right through the camera lens and thus eliminates parallex? \_\_\_\_\_  
\_\_\_\_\_

27. How fast should the ASA rating of a film be to take indoor **available** light photos with a simple camera? At least \_\_\_\_\_.

28. What is good **composition**? (Give a definition in a short statement.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To the 4-H Photography Club Member:

1. This record book contains:
  - a. Photography quiz--the first assignment in your Unit III 4-H Photography Project Record Book.
  - b. Photography score sheet for 30 pictures.
  - c. Brief explanation of camera operation.
  - d. Thirty picture record pages (add separate sheets if necessary).
  - e. Summary with financial record and explanation.

Keep an up-to-date record on the score sheet. Mount your pictures in the record book as the film is developed and prints are made. Complete all information concerning each picture in the space provided. One page is reserved for your best picture.

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Photography Score Sheet (To help you evaluate your work)

Check your print and place an X in the column that applies.

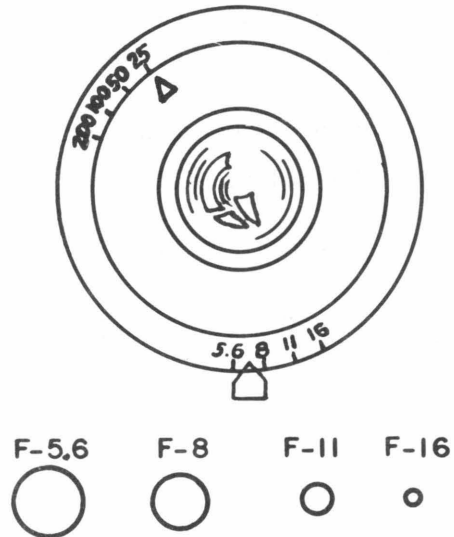
Consult your adult leader for guidance.

Check the quality of your negative against the quality of your print.

Points to Score	Picture Number																													
	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
Over Exposure																														
Under Exposure																														
Good Exposure																														
Out of Focus																														
Camera Position For Action-Good																														
Camera Position For Action-Poor																														
Good Outdoor Lighting																														
Poor Outdoor Lighting																														
Good Flash Lighting																														
Poor Flash Lighting																														
Subject too Far Away																														
Subject Right Distance																														
Subject too Close																														
Composition Good																														
Composition Poor																														
Story Telling Ability--Good																														
Story Telling Ability-Poor																														

## A BRIEF EXPLANATION OF CAMERA OPERATION

An adjustable camera will greatly increase your picture taking opportunities. 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.



"My Best Picture"  
(Mount picture in space below; use rubber cement)

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 \_\_\_\_\_

Could this picture be improved? \_\_\_\_\_ How? \_\_\_\_\_

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\_\_\_\_\_

(Mount picture in space below; use rubber cement)

Explain in essay style what you have learned in Unit III Photography project, "Exploring Photography." Among other things, include (1) what you should consider when purchasing a simple or adjustable camera; (2) factors which need to be considered when selecting black and white and color film; (3) what you learned new about flash photography; (4) tell about your interest, if any, in making contact prints; (5) tell how the 4-H photography project helped you in other activities and (6) how you helped younger club members complete requirements in Units I and II of the photography project. (Use additional sheets if necessary.)

Summary

(To be filled out after completing the project)

Type of camera(s) used \_\_\_\_\_ Serial no. on covers \_\_\_\_\_

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

(List all items of expense including equipment purchased.)	Cost	
	\$	¢
Film (size or type)		
Black and white film developing		
Color film processing		
Printing of pictures		
Flash bulbs (size or number)		
Equipment and supplies (cameras, filters, albums, etc.)		
Total	\$	

Demonstration or Illustrated Talk Record

Photography topics	Date	Attendance	Where given

Exhibit Record

What was exhibited	Where *	Placing

\* 4-H Club meetings, fairs, achievement-day programs, festivals, window displays, etc.



## AWARDS

We believe you will find much personal satisfaction in completing the required work in the 4-H photography projects. Strive to learn how to take better and more interesting pictures. Increased enjoyment will be yours as you become competent in using a camera.

Tangible awards are available for outstanding accomplishments in the 4-H photography projects. Ask your Extension agents and adult leaders about guidelines to use in assembling a 4-H photography achievement record.

Awards available are:

County - 4 gold-filled medals

State - \$50 U. S. Savings Bond

Sectional - 18 all-expense-paid trips to National  
4-H Club Congress

National - 3 educational scholarships of \$500 each

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