



4H PHOTO FUN CLUB

**GUIDELINES
FOR SUPPLEMENTARY
TEACHING AIDS**

A RESOURCE GUIDE TO 4-H PHOTO FUN CLUB

For teachers, 4-H leaders, community leaders, teens . . .



RESOURCE GUIDE TO THE 4-H PHOTO FUN CLUB

TABLE OF CONTENTS

General Information	2
Section I- Guide to Supplementary Learning Through Photography	3
Communication Arts	3
Community Development	3
Conservation and Ecology	3
Family Relationships	4
Home Life	5
Science	5
Section II - Guide to Photographic Stories	6
Biological Sciences	7
Communication and Language Arts	7
Home Economics and Industrial Arts	7
Humanities	8
Physical Sciences	8
Social Sciences	8
Section III - Guide to Photography References	9
Books	9
Encyclopedias	10
4-H Photography Publications	10
Periodicals	11
Sources of Local Assistance	11

GENERAL INFORMATION

The **4-H Photo Fun Club** is an exciting new concept of informal education for youth. It begins with the fun of learning about photography through the medium of television. But, it also goes beyond this to some important ideas about improved communications.

THE **RESOURCE GUIDE TO THE 4-H PHOTO FUN CLUB** is designed to assist adults and teens in making the learning experiences involving photography; more interesting to youth. It attempts to do this by presenting ideas which can serve as a supplement to learning by the young people involved.

Teachers, 4-H leaders, parents, community youth workers, or teen leaders can play a significant role in the **4-H Photo Fun Club** by helping boys and girls enjoy the fun of photography through the development of supplementary interests and expanded activities involving photography relating to the classroom and found throughout the community and at home.

The **4-H Photo Fun Club** is based on six half-hour instructional television shows designed for nine to twelve year olds. These programs will be aired locally in cooperation with state and county Extension Service 4-H staff workers. A project manual for young people and other promotional and supportive materials are available from the county extension office. Innovative cooperative arrangements with classroom teachers, community center program directors, and group youth workers are particularly useful in developing photography activities which serve as supplementary learning experiences for young people.

In the **4-H Photo Fun Club** boys and girls learn how to use a camera to take good, clear, well-lighted pictures, and thoughtfully composed pictures. They also learn how a series of photographs in sequence can tell a story or communicate an idea. They discover the camera as an instrument for being creative, and as an effective way to express themselves. With a camera, film, subject, light and processing, they find photography invaluable in getting across ideas otherwise often difficult to convey. Learning to use a camera to communicate through pictures can also be an enjoyable and satisfying experience.

The first section, **Guide to Supplementary Learning Through Photography** provides a suggested group of questions, activities and projects which can provide supplemental educational opportunities for participants in the **4-H Photo Fun Club**.

In Section Two, the **Guide to Photographic Stories** contains a list of suggested ideas which can be utilized by young people in learning to tell a story through photographs.

The third section contains a **Guide to Photography References** which is designed to assist volunteer adults and teen leaders in locating reference materials and supplemental information on photography for use by youth enrolled in the **4-H Photo Fun Club**.

THE **RESOURCE GUIDE TO THE 4-H PHOTO FUN CLUB** CAN BE ESPECIALLY HELPFUL IN STIMULATING **4-H Photo Fun Club** members to explore improved communications through photography. Most classroom topics, unit lessons, or subject matter topics, from - art, conservation, English, geography, government, health, history, home life, mass communications, social studies - to science and sports can be enhanced by effective photography.

SECTION I - GUIDE TO SUPPLEMENTARY LEARNING THROUGH PHOTOGRAPHY

This section is designed to help the volunteer adult resource person utilize photography as a supplementary aid to learning for young people who participate in the **4-H Photo Fun Club**. It suggests ways that photography can be involved in expressing thoughts that are difficult to convey in any other way. The **Guide** is also useful as a source of ideas for informal learning experiences involving photography, which relate to the classroom curriculum.

This list may be helpful in suggesting stimulating ways to encourage youth to inquire into the exciting world around them. It is an important step in communicating effectively via the photograph, to utilize visual communications in as many types of learning experience as possible.

The activities, questions and discussion topics in this section are organized into six broad areas, (1) Communication Arts, (2) Community Development, (3) Conservation and Ecology, (4) Family Relationships, (5) Home Life and (6) Science.

This **Guide** can enhance learning in the classroom by motivating young people to feel that learning can be fun, through photography.

COMMUNICATIONS ARTS

Why are "planning cards" useful in preparing photographic stories?

In preparing a photographic story about a visit to a manufacturing plant what would be important to include?

Is there a camera shop near your home? Have you met the proprietor? He could be helpful with your photography project. What forms of communications are in use in your community today? How recently have these methods been developed?

What types of newspaper pictures can be most helpful in increasing knowledge of other people in other parts of the world?

What do you think of the photographs used in your daily newspaper? How might they be improved?

How can an action plan for solving a social problem be developed with the help of photographs?

Can the need for greater understanding of mental retardation be brought effectively to the attention of people through photography? How?

What plans are being made to provide photographic coverage of your next school election?

How could a camera be used effectively in a "Get Out the Vote" campaign?

If a vote on a needed bond issue for schools, recreational facilities or a new water system is contemplated, how can young people use photographs in support of these causes?

How useful can photographs be of historical sites in other parts of the world?

What would a pictorial reference catalog in a library look like?

What advantages would this type of reference catalog have over other systems?

Compare the differences in transportation and communications found in photographs taken in 1900, 1930 and the present.

How do old-fashioned "covered bridges" compare with present-day bridges in architecture, use and size? How were you able to make such comparisons?

Compare a recent magazine with one published in 1940. How does the use of photographs differ in the two publications?

COMMUNITY DEVELOPMENT

What are the opportunities for leisure-time organized athletics in your community? Could you take photographs of each opportunity?

What recreational needs are missing in your neighborhood? What would be an effective way to bring these needs to the attention of municipal officials?

What use can television be in helping to change people's behavior about community problems?

Make a photographic record of the cultural attractions in your community such as museums, theaters, educational institutions, concert halls, etc.

Are there any dangerous traffic hazards in your neighborhood which should be eliminated? Use a camera to show how dangerous they are.

Repairing city streets can be exciting to many people. Photographic studies of human faces and road-building equipment make interesting pictures.

What specific problems exist in your community which could be highlighted through photography?

What hazards to health are apparent in your community? Can they be photographed?

Is your community planning an airport development or expansion program?

How could photographs make the alternatives clearer?

How does planning for a photographic story differ from planning for community improvement?

Record on film a variety of homes, churches, schools and industries in your community. What are the regulations governing use of land in the community?

What can you learn about the economics of a community from aerial photographs taken over a period of several years?

List the present-day types of businesses in your community which DO NOT make use of photography in some way? Why is this?

What effect does a period of economic prosperity have on the life of your community? How could this be shown in photographs?

How was a record kept of overall views of communities or of important events before the camera was invented?

How many neighbors do you know who make extensive use of photography on their jobs? How do they use photography?

How do prices compare for the same-sized item in different stores? Can this be shown pictorially?

CONSERVATION AND ECOLOGY

What are the most pressing conservation needs in your community at this time? A picture story of these needs can be most helpful in establishing priorities in this regard.

Is there a Conservation Commission or Conservation Board in your community? If not, how might one be organized?

How would a soil conservationist use photographs to encourage conservation measures?

After seeing photographs of soil erosion, can you estimate how many people are adversely affected by the damage to the land? How much would it cost in dollars to repair it?

How can photography help to insure that future generations of Americans will have clean air to breathe?

What plans are being made for "Conservation Week" in your community? Is there a place for photography?

What part of our community fair's publicity program can young people work on with their cameras?

Following a community clean-up day, how can photographs be used to impress people with a need to **keep** their community neat and attractive?

What plans should be made to provide photographic coverage of **future** community clean-up campaigns?

Can aerial photographs of lakes in different regions of the country be compared to discover how these lakes were originally formed?

How does rainfall affect the growth of crops in your area? Can you show this in photographs?

How can the nature of growing things be made clear to those who have not had firsthand experience with them?

What do pictures of tall buildings show us about the nature of the cities in which they are built?

FAMILY RELATIONS

- Have you started a "Family Photo Album?" If not, how would you go about it?
- How do you keep the "Family Photo Album" up to date? What do you do when you fall behind? How are the negatives filed?
- What plans are there to keep an up-to-date photo album of neighbors, relatives and friends?
- When the next birthday of a member of your family comes around, what are your plans to use a camera?
- Why are family picnics especially good times to bring along a camera?
- What would a "Day in the Life of a Mother" be like in photographs?
- How do your family members compare in height? Show this in pictures.
- What types of cameras could be used to record the family's vacation this year? How did you make your decision?
- What is a typical Saturday like with your family?
- When friends are visiting in your home, how can photography be used to remember the good times?
- What interesting events in a family's life might be used to tell a story photographically?
- How young do you think a boy or girl should be to own his own camera? How did you make your decision?
- What do your sisters or brothers think of your membership in the **4-H Photo Fun Club**? Show their reactions in photography.
- What types of work do parents perform which young people do not? Can you show this in pictures? Why is this true?
- Why does taking care of the neighbor's dog sometimes seem like more fun than caring for one's own dog? Can you show the difference photographically?
- At a neighborhood pet show, how could each animal be photographed to best advantage?
- How many different methods of transportation does your family use today? How does this compare with 100 years ago? With 30 years ago?
- What types of one-day trips, by bicycle, would provide good contrasts of geography and scenery for photographic study?

HOME LIFE

- How does your home change in appearance from summer to winter? A pictorial record of these changes may even suggest ways to improve its appearance.
- What changes might be suggested for your home play area? Show this in photographs.
- What caused the recent blistering of paint on the outside of a nearby house? Could photography document the situation and suggest a possible solution?
- What can you learn about improving the appearance of your home from photographs of several nearby homes?
- Can you arrange to take an aerial photograph of your neighborhood? What camera would you use?
- How difficult and expensive would it be to develop a darkroom in your home? Talk it over with your parents.
- Where is a good place to store cameras and film at home?
- Why did you select the location?
- What kinds of photographs would be good to use on the redecorated wall of a 12-year-old girl's bedroom?
- Can photographs help to point out and eliminate safety hazards in your home?

SCIENCE

- How is light used by a camera to record an image on photographic film?

Why is the image of a subject initially inverted on the film in a camera?

How does the human eye differ in this respect?

Why does a photograph become blurred when the camera is too close to a subject?

How does a camera take into account the amount of light in the foreground as well as in the background of any picture?

Why is heat injurious to film? What is its effect on undeveloped film?

What is the different effect of a blue flash lamp as compared with a white flash lamp.

What are the specific results of overexposure to a processed photograph?

Why is color film more expensive than black-and-white film of the same size?

What happens to the unexposed film in the camera if the lens is aimed directly at the sun and the shutter is opened?

What occurs chemically when photographic film is processed?

Why does that part of the film representing bright subjects remain dark on the processed negative?

How does radioactivity affect unexposed photographic film?

What is the origin and meaning of "f stop"?

What would be the "f stop" settings on an adjustable camera, using a light meter and known distance for the same photograph on (1) a sunny day; (2) a rainy day; and (3) after a snow storm?

What is the meaning of the number designations for film such as 620, 616, 35mm, 27?

How does a light meter work?

What are some of the techniques used to stop the motion of a moving subject in a still photograph?

How does a motion picture camera differ from a still camera?

How has photography helped advance medical technology?

What use would a physicist make of a camera?

How could photography be helpful in the study of entomology?

How can the nature of growing things be made more clear through photography?

What kinds of scientific experiments are recorded almost exclusively by photography? Why?

How can the human life processes such as respiration rate, heart beat, temperature level, etc., be portrayed effectively in photographs?

How are photographs transmitted via the Telstar Communications Satellite?

SECTION II - GUIDE TO PHOTOGRAPHIC STORIES

The **4-H Photo Fun Club** demonstrates how young people can use a camera to obtain steady, clear, well-lighted, and thoughtfully composed photographs. It also shows how a sequential series of photographs can be used to **tell a story or communicate an idea**.

The following list of suggested photographic stories is grouped alphabetically by the broad subject-matter categories of (1) Biological Sciences, (2) Communications and Language Arts, (3) Home Economics and Industrial Arts, (4) Humanities, (5) Physical

Sciences and (6) Social Sciences. This section is intended to serve as a guide in suggesting ways youth can develop their own specific, creative and imaginative approaches to story-telling communications through photography. It is hoped these few suggestions about photographic stories will stimulate additional thought about the many interesting and important stories which can be told effectively with photographs.

1. BIOLOGICAL SCIENCES

Aquatic Life

Tropical Fish are Fun to Raise at Home
A Week-end Fishing Trip
Catching Frogs at the Pond
A Visit to a Fish Hatchery

Athletics

A Championship Football Game
The "Jogger" in the Park
Track Meet at School
Exercising on the "Jungle Jim"

Conservation

A Conservation Success Story which Needs Telling
An Undiscovered Water Pollution Menace
The Case for "Unlittering"
Cleaner Air is Imperative

Health

When the Well-Baby Clinic Visited Our Neighborhood
A Visit to a Hospital
My Dentist Has Some Interesting Equipment
Ridding the Dump of Rats

Nature

Natural Beauty in the City
Wild Animals I Can Identify
Flowers are for Everyone
Fun in the Woods

Pets

Hampsters Make Great Pets
The 4-H Dog Obedience Training Class
"Twinkie" the Cat
White Rats and Snakes

Plant Life

Planning and Planting the Flower Garden
Growing Indoor House Plants

Transplanting Nursery Stock
Forest Trees Can be Majestic

2. COMMUNICATIONS AND LANGUAGE ARTS

Mass Media

Television Production Techniques
The Daily Newspaper Office - A Busy Place
Uses of the Telephone to Reach Many People
What a Radio "DJ" Does

English

Comparisons of Japanese Haiku and American Poetry
Using Note Cards in Writing a Research Paper
Outlining is Helpful in Preparing a Technical Report
Developing a Visual Literature Reading List

Foreign Languages

Comparing Chinese and German Printing Styles
A Study of the Same Word in Different Languages
Menus from Five European Countries
Maps Printed in Different Languages Can Still Be Useful

Speech

How Speakers Appear to Audiences
Using Props for a Public Address
What Babies Would Say if They Could Talk
Impromptu Presentations by Classmates

3. HOME ECONOMICS AND INDUSTRIAL ARTS

Family Fun

An Evening at Home
A Shopping Trip with Mother
Getting a Portrait of Family Members
Enjoying a Family Picnic

Food Ideas

Boys Aren't Bad Cooks
A Homemade Pizza Party
Dad Likes to Barbecue
Shopping for Food is Interesting

Hobbies

Collections are Fun

Writing Poetry Can Be Challenging

How to Become an Amateur Rose Grower

Wood Carving Takes Patience

Vacations

An Auto Trip is Great Fun

Vacationing in the National Park System

Interesting Places I Visited

Getting Ready to Go

Wardrobes

A Shopping Trip for Clothes

How to Make Clothes Last Longer

It's Fun to Make Your Own Clothes

What's New in Swimming Wear

4. HUMANITIES**Architecture**

Different Styles of Architecture Found in Homes

Public Buildings Built at Different Periods in History

A Study of Bridges

Unique Architecture in Apartment Houses

The Arts

A Visit with a Sculptor

What Makes a Museum Interesting

Preparing an Entry for an Art Show

Backstage at Orchestra Rehearsal

Entertainment

Dramatics in the Back Yard

A Summer Band Concert

Making Home Movies

The Circus Comes to Town

Music

Composing on the Guitar

Practicing for a Piano Recital

A Folk Festival at Church

Attending a Rock Concert

5. PHYSICAL SCIENCES**Chemistry and Physics**

Chemical Reactions in the Lab

Weights and Measures at Work

Comparing Natural and Man-Made Electricity

Chemical Compounds Found in the Home

Mechanics and Electronics

Repairing Bicycles

Assembling a Short Wave Radio

How a Computer Works

Building a "Hot Rod"

Safety

A Day in the Life of a Fireman

A Need for Crossing Lights at a City Park

Lack of Fences at a Construction Site

A Safety Check List for Homes

Transportation

A Canoe Trip at Camp

Visit to an Airport

Mass Transit in the City

My Brother's New "Cycle"

6. SOCIAL SCIENCES**Crime and the Law**

A Day at the Police Station

A Visit to the Court House

Pointing Out Potential Crime Situations

Training a Fireman

Early Americans

Examples of Indian Art Work

Present Day Descendants of Early Americans

Indian Customs and Traditions

Our Indian Heritage

Education

Our New School

The Library - Its Many Services

How Learning Takes Place

The Debating Club - A Great Place to Learn

Politics

Interviewing an Elected Official

On the Campaign Trail

Visiting the City Council

Action at the Polls on Election Day

Work and Employment

Interesting Yet Little Known Jobs

Carhopping at the Drive-In

Baby Sitting for the Neighbors

Jobs Around Town

SECTION III - GUIDE TO PHOTOGRAPHY REFERENCES

There are numerous references readily accessible to volunteer adults which can be interesting and helpful in promoting fun and learning through the 4-H Photo Fun Club.

This Guide includes a selected list of, (1) Books, (2) Encyclopedias, (3) 4-H Photography Publications, (4) Periodicals and (5) Sources of Local Assistance. Some items in each category are available in almost every community in the country. Every community, school or college library will have at least one set of encyclopedia, plus one or more of the books or periodicals listed.

The 4-H Photography Publications, while available only through County Extension Offices, provide the single most complete and well presented set of photography reference materials specifically written for youth. They are available to 4-H members interested in seriously pursuing photography as a 4-H project. Check with the nearest County Extension 4-H Agent for detailed information.

Sources of local assistance are also included, which can be utilized to obtain additional information or personal assistance of a specific nature, not available from published books, encyclopedias or 4-H photography publications. Many communities abound with these types of resource people.

Books

- ABC's of Developing, Printing and Enlarging**, by Wayne Floyd,
(American Photography Book Publishing Company, New York) 1964, pp 96
- Amateur Photographers Handbook** (7th edition revised), by Aaron Sussman,
(Thomas J. Crowell Company, New York) 1965, pp 400
- Audio-Visual Materials: Their Nature and Uses**, (3rd edition), by Walter A. Wittich and Charles F. Schuller,
(Harper Brothers, New York) 1962, pp 500
- Basic Photography**, by Michael J. Langford,
(Focal Press, Incorporated, London and New York) 1965, pp 374
- Beginners Guide To Better Pictures**, by Patricia Caulfield,
(American Photography Book Publishing Co., New York) 1964, pp 95
- Camera Journalism**, by Al E. Woolley,
(A. S. Barnes and Company, South Brunswick, New Jersey) 1966, pp 192
- Careers in Photography**, by Carroll B. Neblette,
(Rochester Institute of Technology, Rochester, New York) 1965
- Complete Photographer**, by Andreas Feininger,
(Thames and Hudson, London) 1966, pp 344
- Family Fun, Games and Sports Photography**, by Paul Duckworth,
(Universal Photo Books, New York) 1962, pp 127
- Freelance Magazine Photography: A Guide to the Working Photojournalist**, by Lou Jacobs,
(Chilton Books, Philadelphia) 1965, pp 160
- Fundamentals of Photography** (4th edition), by Paul E. Boucher,
(D. Van Nostrand Company, Princeton, New Jersey) 1963, pp 535
- Fundamentals of Photographic Theory** (2nd edition), Thomas H. James and George C. Higgins,
(Morgan and Morgan, Incorporated, New York) 1960, pp 345
- Getting Started in Photography** (2nd edition), by Les Barry
(Chilton Book Company, Philadelphia) 1967, pp 128
- History of Color Photography** (2nd edition), by Joseph S. Friedman,
(Focal Press Incorporated, New York and London) 1968, pp 565
- History of Photography From 1839 to The Present Day** (Revised and Enlarged edition), by Beaumont Newhall,
(Museum of Modern Art, New York) 1964, pp 215
- How Photography Works**, by Henry J. Walls,
(Focal Press, Incorporated, New York and London) 1959, pp 352

Introduction to Photography, by Robert B. Rhode and Floyd H. McCall,
(Macmillan Company, New York) 1965, pp 278

Lenses in Photography (revised edition), by Rudolph Kingslake,
(A. S. Barnes and Company, New York) 1963, pp 278

Manual of Color Photography, by Edward S. Bomback,
(Fountain Press, London) 1964, pp 412

One-Hundred-One Experiments in Photography, by Richard O. Zakia and Hollis N. Todd,
(Morgan and Morgan Incorporated, New York) 1969

Pocket Photo Data Book, (4th edition),
(Morgan and Morgan, Incorporated, New York) 1966

Photography From A to Z (2nd edition), by Dan Daniels,
(Chilton Book Company, New York) 1968, pp 142

Photography, Its Materials and Processes (6th edition), by Carroll B. Neblette,
(D. Van Nostrand Company, Princeton, New Jersey) 1962, pp 508

Say It With Your Camera, by Jacob Deschin,
(Ziff-Davis Publishing Company, New York) 1960, pp 258

Encyclopedias

Colliers Encyclopedia, (Crowell-Collier Publishing Corporation, New York)
1965, Vol. 18, pp 739-785, Photography

Encyclopedia Americana (International Edition),
(Americana Corporation, New York), 1969, Vol. 22, pp 1-12, Photography

Encyclopedia Britannica, (Encyclopedia Britannica Incorporated, Chicago),
1967, Vol. 17, pp 943-988, Photography

Encyclopedia International, (Grolier Incorporated, New York),
1969, Vol. 14, pp 311-329, Photography

Encyclopedia of Photography, (Greystone Press, New York),
1967, 20 volumes

Focal Encyclopedia of Photography (fully revised edition),
(Focal Press Incorporated, New York), 1965, 2 volumes

McGraw Hill Encyclopedia of Science and Technology, (McGraw-Hill Book Company, New York),
1966, Vol. 10, pp 158-168, Photography

4-H Photography Publications

Adventures With Your Camera

Unit I - Members' Manual, 1969, pp 21

Unit I - Leaders' Guide, 1962, pp 11

Challenges in Picture Taking

Unit II - Members' Manual, 1968, pp 25

Unit II - Leaders' Guide, 1963, pp 11

Exploring Photography

Unit III - Members' Manual, 1966, pp 37

Unit III - Leaders' Guide, 1965, pp 15

Mastering Photography

Unit IV - Members' Manual, 1968, pp 49

Unit IV - Leaders' Guide, 1965, pp 15

Exploring Movie Making

Members' Manual, 1970, pp 40

Leaders' Guide, 1970, pp 16

Enlarging Unit - Advanced Skill Guide Sheet, 1965, pp 4

Photo Recording Unit - Advanced Skill Guide Sheet, 1965, pp 4

Movie Unit - Advanced Skill Guide Sheet, 1965, pp 4

Color Slides Unit - Advanced Skill Guide Sheet, 1967, pp 4

Photo-Visual Presentation Unit - Advanced Skill Guide Sheet, 1967, pp 4

Investigating Small Business Opportunities Unit - Advanced Skill Guide Sheet, 1967, pp 4

News Photography Unit - Advanced Skill Guide Sheet, 1968 pp 4

NOTE: All of the above publications are published by the National 4-H Service Committee, Inc. in Chicago.

Periodicals

Industrial Photography, Media - Horizons, Inc., New York, Monthly

Infinity American Society of Magazine Photographers Inc., New York, Monthly, (Membership Only)

International Photo Technik, Verlag Grossbuild Technik, Munich, Germany, Quarterly

Modern Photographer, Billboard Publications, Inc., New York, Monthly

PMI - Photo Methods For Industry, Gellert - Wolfman Publishing Corp., New York, Monthly

Popular Photography, Ziff-Davis Publishing Company, New York, Monthly

Professional Photographer, Professional Photographer of America Publications Inc.,
Des Plaines, Illinois, Monthly, (Membership Only)

Range Finder, Range Finder, Incorporated, Hollywood, California, Monthly

Travel and Camera, U. S. Camera Publishing Company, New York, Monthly, except July and August

Sources of Local Assistance

Camera Club Officers and Members

Camera Shop Owners and Employees

Community, School or College Librarians

Competent Amateur Photographers

County Extension Personnel

Museum and Institute Exhibit Directors

Newspaper Photographers and Picture Editors

Photography Section of Mail Order Catalogs

Photography Section of Newspapers

Professional and Studio Photographers

School or College Science Instructors of Photography Courses

Compiled by: Dr. William W. Metcalfe, Consultant, Extension Service, U.S. Department of Agriculture

