CATALOG OF VISUAL AIDS

September 1934

UNIVERSITY OF HAWAII
EXTENSION DIVISION
VISUAL EDUCATION SERVICE
University Extension Division

VISUAL EDUCATION SERVICE

The Visual Education Service of the University of Hawaii has been established for the purpose of making available to schools, churches, clubs and other organizations educational motion pictures, filmstrips and glass slides for school and community use.

The Visual Education Service announces the following classes of material and the regulations governing each class.

CLASS A

In Class A there will be available about 270 reels of 16 mm. width and 70 reels of 35 mm. width. For schools which use this service regularly, the following scale of charges has been arranged for pictures in this class. This annual charge must be paid in advance upon application for use of the pictures. It is possible to make the payment in two yearly installments, one in September and one in February, if desired.

<table>
<thead>
<tr>
<th>Annual Fee</th>
<th>Reels per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>$12.50</td>
<td>1 to 30</td>
</tr>
<tr>
<td>$15.00</td>
<td>40</td>
</tr>
<tr>
<td>$17.50</td>
<td>50</td>
</tr>
<tr>
<td>$20.00</td>
<td>60</td>
</tr>
</tbody>
</table>

Any school desiring to use more than 60 reels in Class A, will make a deposit of $3.50 for every 10 reels above 60 which it may order in this class.

The rental price for all pictures in Class A, when not used in connection with visual education programs in schools, will be $1.00 per reel for 16 mm. films and $.75 for 35 mm. films.

CLASS B

In Class B are listed the Chronicles of America and other motion pictures of both standard and narrow width which are distributed for a fixed rental charge per reel per day. The Chronicles of America are now available in both 16 mm. and 35 mm. width. See pages 17 to 21 for prices and regulations governing the use of these films.

Individuals or organizations selecting pictures in this group will pay the rental price per reel per day which appears opposite the title of the picture.

CLASS D

In Class D are listed 240 film strips or still films. Schools may select any five individual subjects to be retained for five days at a rental charge of 50 cents. When less than five subjects are ordered, a charge of 20 cents per film strip per day will be made. Special rates when an entire set is rented will be quoted on request. If schools are not equipped with film strip projectors (the ordinary motion picture projector cannot be used for this purpose) or film strip attachments to their stereopticons or glass slide projectors, the Visual Education Service will loan a projector.
for a small rental fee per day. It is highly desirable, however, that after schools have had an opportunity to use this material in an experimental way, they purchase their own projector or attachment, and as opportunity and funds permit, build up their own film slide library.

The Visual Education Service will be glad to arrange demonstrations of the use of this visual material in connection with classroom instruction. Further information on material, projectors, etc., will be supplied on request.

CLASS E
STEREOGRAPHS

In Class E are listed 300 stereographs for Primary Grades. This material has been carefully prepared and selected with reference to the interests and needs of children in the primary grades. Books which correlate with this visual material and which give suggestions for its use, may be inspected at the Extension Division office.

The yearly rental rate for the 300 stereographs or pictures, including the use of the stereoscopes for holding the pictures, will be $12.50. Stereographs related to some particular lesson may be drawn out as needed. When ordered separately, i.e., not under the yearly rental plan, the rate on individual pictures will be 5 cents each per day, plus 5 cents each for the use of the stereoscopes. Transportation and insurance will be borne by the borrower.

A complete list of the titles in each of the 14 lessons or sets may be found on pages 30 to 34.

The Visual Education Service will be glad to furnish further information on the use of the stereographs.

CLASS F

In keeping with the efforts of the Department of Public Instruction and the Honolulu Police Department to teach school children safety lessons which will insure their protection against street accidents, the University of Hawaii and the Department of Public Instruction cooperating have secured two 16 mm. films on street safety for free distribution.

OUTLINES AND TEACHERS’ GUIDES

The printed outlines or teachers’ guides, which may be had in advance of the picture, should be returned at the time the film is returned. If a school wishes to purchase the printed outlines, the Visual Education Service will furnish these at cost price.

REGULATIONS

The motion pictures, lantern slides, film strips, and stereographs listed in this catalogue may be obtained from the University of Hawaii Visual Education Service by schools, churches, clubs, and similar organizations. The following rules must be observed.
Failure to read these in no way relieves organizations or individuals from the responsibility assumed in using this service.

1. Transportation charges and insurance, both directions, must be borne by the borrower. Films will ordinarily be sent postage prepaid. In that case, the borrower will note the postage which appears on bill and reimburse the Service accordingly. All material must be returned express prepaid or postage prepaid. An insurance fee covering the value of the package as indicated on the University label must be added to the parcel post or express charges.

2. The charges listed are for one day's use. Failure to return material in the various classes on the day specified on the shipping bill will subject the borrower to a fine of 50 cents per reel per day for every day the material is kept over time.

Patrons are asked to cooperate in every way possible in returning material promptly. This is necessary because many programs are booked in advance and failure to comply with this regulation may completely upset the schedule of another borrower.

Material listed in this catalogue shall not be loaned to other institutions or individuals without the knowledge and consent of the Visual Education Service.

3. Users of films are not permitted to charge any fee except in case the fees are used wholly to defray the cost of the pictures, or for the purchase of visual education material to be used for school purposes. The only exceptions are pictures in Class B. This loan service is not available to motion picture theaters.

4. Use of films for personal gain is strictly prohibited.

5. Requests for bookings should be received at least one week in advance of the date of showing. The Visual Education Service will not be responsible if material is not received in time for a given program if letter requesting material is not received at the University one week in advance of the date material is desired. If the borrower will submit a list of possible dates and the catalog number of subjects desired, every effort will be made to complete a satisfactory schedule.

6. First, second, and third choices should be indicated when bookings are sent in, as the first choice is not always available for the date requested.

7. In ordering, give catalog number and title.

8. If films are destroyed by fire, or otherwise damaged while in possession of the borrower, the loss or damage is chargeable to the borrower. The film is always carefully inspected before leaving the Visual Education Service. Inspection is again made as soon as film is returned by borrower, and notification will be sent if film has been damaged. Such
damage will be charged to the borrower at the cost price of having new print made of damaged portions.

If damage cannot be calculated on a footage basis, borrower shall make settlement for such damage on basis which may be agreed upon by Visual Education Service and borrower.

9. Attendance reports, when requested by the Visual Education Service, should be made on forms furnished for this purpose.

10. When returning material, shipping labels (provided by Visual Education Service) should be pasted over the old labels to insure the safe return of material.

11. Borrowers who call for films in person should call at Room 12, Hawaii Hall. The office hours are from 8 to 12 and 1 to 4 during the day.

12. When a list of films is ordered for the semester or for the year and thus recorded by this office, all changes made will be charged for at the rate of 10 cents a reel.

13. When the Visual Education Service prepays postage for shipment of films it is very important that the Service be reimbursed as soon as monthly bill for this item is presented.

Do Not
Re-Wind Films
Before
Returning

DO NOT MAKE PERMANENT SPLICE UNLESS FILM IS TO BE USED A SECOND TIME
### List of Visual Aids

#### PART I

**Class A**

16 mm. Films

**AGRICULTURE AND FORESTRY**

<table>
<thead>
<tr>
<th>No. of Reels</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1 AGRICULTURAL EXPLORATIONS IN CEYLON, SUMATRA, AND JAVA (Oct. to Feb. 1)</td>
<td>Shows fruits and ornamental plants introduced into U. S. from these countries.</td>
</tr>
<tr>
<td>1</td>
<td>2 ANCHORED ACRES</td>
<td>Modern engineering practices overcome soil erosion.</td>
</tr>
<tr>
<td>1</td>
<td>3 BEES—HOW THEY LIVE AND WORK</td>
<td>How the bees gather nectar and transform it into honey.</td>
</tr>
<tr>
<td>4</td>
<td>4 THE REALM OF THE HONEYBEE (Feb. to May 1)</td>
<td>Life history of the honeybee, containing some unusual close-ups.</td>
</tr>
<tr>
<td>1</td>
<td>5 BEETS—FROM SEED TO SUGAR BOWL</td>
<td>The culture of sugar beets; various steps in the manufacture of beet sugar.</td>
</tr>
<tr>
<td>2</td>
<td>6 CUBA—THE ISLAND OF SUGAR (Available November only)</td>
<td>How cane sugar is produced in Cuba. Film is of special interest in view of sugar quotas allotted to Cuba and Hawaii.</td>
</tr>
<tr>
<td>1</td>
<td>7 THE SUGAR TRAIL (Available November only)</td>
<td>Depicts the beet sugar industry. Animated statistics illustrate the extent and method of the world's consumption of beet sugar.</td>
</tr>
<tr>
<td>1</td>
<td>8 ROMANCE OF RAW SUGAR</td>
<td>Story of sugar in the Hawaiian Islands.</td>
</tr>
<tr>
<td>1</td>
<td>9 CATTLE</td>
<td>Life on a cattle ranch; alfalfa for winter feed; shipping cattle; a rodeo.</td>
</tr>
<tr>
<td>1</td>
<td>10 LIVESTOCK AT THE MAUl FAIR</td>
<td>Prize winning animals at the Maui County Fair.</td>
</tr>
<tr>
<td>2</td>
<td>11 COW BUSINESS</td>
<td>Beef-cattle industry in western United States, contrasting early methods with present practices.</td>
</tr>
<tr>
<td>1</td>
<td>12 GRAZING ON NATIONAL FORESTS</td>
<td>How Uncle Sam provides summer range for millions of head of cattle and sheep.</td>
</tr>
<tr>
<td>1</td>
<td>13 COFFEE</td>
<td>Coffee growing, hulling and cleaning, shipping, preparing for market.</td>
</tr>
<tr>
<td>1</td>
<td>14 CONQUERING A JUNGLE</td>
<td>Agriculture and lumbering in Sumatra.</td>
</tr>
<tr>
<td>1</td>
<td>15 CORN</td>
<td>Methods of planting and harvesting; the corn borer; husking and shelling; manufacture of corn products.</td>
</tr>
<tr>
<td>1</td>
<td>16 COTTON GROWING</td>
<td>Planting and cultivating; the boll weevil; picking; preparing for market.</td>
</tr>
<tr>
<td>1</td>
<td>17 DATES—AMERICA'S NEW FRUIT CROP</td>
<td>How desert land of the Southwest has been transformed into productive date gardens.</td>
</tr>
<tr>
<td>1</td>
<td>18 THE FOREST—AND WATER</td>
<td>Vital influence of the forest on water supply.</td>
</tr>
<tr>
<td>1</td>
<td>19 Reforestation of Waste Lands</td>
<td>Wasteful cutting of trees; a school project in reforestation.</td>
</tr>
<tr>
<td>1</td>
<td>20 PLANTING AND CARE OF TREES</td>
<td>Planting, arrangement and proper care of shade trees.</td>
</tr>
<tr>
<td>1</td>
<td>21 HALTING FOREIGN PLANT FOES</td>
<td>Administration of the plant quarantine act to keep out new plant pests and diseases.</td>
</tr>
</tbody>
</table>

(7)
1-22 HOLDING THE JAPANESE BEETLE .......................... 1
Life history of Japanese beetle; rapid spread and damage; means of control.

1-23 HOW TO GROW HOGS ...................................... 2
Selection and care of sow before and after farrowing; feeding and handling pigs up to marketing time.

1-24 IRRIGATION ............................................. 1
The Roosevelt Dam project; irrigation in Imperial Valley and in region of San Diego.

1-25 MARKET GARDENING ..................................... 1
How a nation is supplied with fresh, green vegetables.

1-26 PEANUTS ................................................... 1
Growing and harvesting; peanut products.

1-27 RABBIT FARMING (Feb. to May 1) ......................... 2
Breeds of domestic rabbits; possibilities of rabbits for meat and fur.

1-28 SAFEGUARDING THE CITRUS FRUIT ....................... 1
Methods used in California to prevent damage to orange and lemon trees.

1-29 SELECTING A LAYING HEN ............................... 1
Culling the flock.

1-30 THE EGG MARKETING INDUSTRY IN THE UNITED STATES 2
Shows every step in egg marketing.

1-31 SWEET POTATOES—FROM SEED TO STORAGE ............ 1
All about the sweet potato industry.

1-32 THE HOW AND WHY OF SPUDS ............................ 1
All about the Irish potato industry.

1-33 TWO SONS OF MONSIEUR DUBOIS ......................... 2
The story of two French-Canadian farmers and their respective failure and success due to neglect or observance of principles underlying successful farming.

1-34 UNCLE SAM, WORLD CHAMPION FARMER ................. 1
Miscellaneous scenes depicting crop, fruit, and livestock industries of the U. S.

1-35 WHEAT ................................................... 1
Irrigation: wheat farming machinery; storing and marketing wheat.

1-36 YOKE OF THE PAST (Available May only) ............... 3
This film is a pictorial record of a century of progress in one of the oldest pursuits of man—agriculture.

**GEOGRAPHICAL AND SCENIC**

**North America**

**ALASKA**

2-0 REINDEER HERDS IN THE ARCTIC ......................... 1
Reindeer, dog teams and a volcanic phenomenon.

2-1 A HOME IN THE ARCTIC .................................... 1
An Eskimo house is built.

2-2 ALASKA ................................................... 1
Gold mining, salmon fishing, seal hunting, whaling, native life, schools, farms of American settlers.

2-5 SAILING SHELTERED SEAS TO ALASKA (Sept. to March 1) 4
A scenic travelogue of Alaska including stops at Juneau, Skagway, Valdez, Sitka, and views of the fishing industry, gold mining, gardens, famous glaciers, and animals in Mt. McKinley National Park.

**CANADA**

2-6 WITH DOG TEAMS AND SNOW SHOES ....................... 1
A winter holiday in northern Ontario.

2-7 RIDE 'EM COWBOY ....................................... 1
The world famous rodeo at Calgary, Alberta.

2-8 WHERE WINTER SPORT IS KING ......................... 1
The many ways in which Canadians revel in winter sports.

2-9 BIRDS OF BONAVENTURE ................................. 1
Glimpses of the famous Canadian bird sanctuary at Bonaventure Island in the Gulf of St. Lawrence.
EASTERN UNITED STATES
2-8 MOHAWK VALLEY
Pioneer days in the valley—traveling by coach, on the DeWitt Clinton, etc.—are contrasted with scenes of today from Schenectady to Rome, N. Y., including typical industries and places of interest.

2-9 WASHINGTON, D. C.
Views of federal buildings and monuments.

2-10 WASHINGTON—THE WORLD'S GREATEST NATIONAL CAPITAL
Shows public buildings and Washington as a resort city.

2-11 CARRY ON—4-H CLUBS
Tom West's experiences at the national encampment of 4-H Clubs at Washington, D. C.

CENTRAL UNITED STATES
See Transportation.

SOUTHERN UNITED STATES
2-12 THE NEW SOUTH
Traces rapid progress of the New South; its agricultural products, raw materials, water power and industries. Views of Birmingham, Mobile, New Orleans, Miami.

2-13 NEW ORLEANS
Shows Spanish-French influence in historic section—variety of exports and imports—strategic position of port—scenes of Mardi Gras.

SOUTHWESTERN UNITED STATES
2-14 THE ARID SOUTHWEST
Gives the world location of hot deserts; effects of wind and erosion in the Arizona Desert; desert plants and animals; nomadic life of the Navajo.

2-15 THE PUEBLO INDIANS
Customs, homes, industries and ceremonies of the Pueblos.

WESTERN UNITED STATES
2-16 THE OREGON COUNTRY
Scenes along the early trails to Oregon contrasted with scenes today. Lower Columbia River, salmon fishing and canning, and the Puget Sound area.

2-17 OVERLAND TO CALIFORNIA
Early routes to the West followed by the covered wagon trains, pony express, traders; then the railroads and airplanes. Over the Rockies to San Francisco and the Pacific.

2-18 GOLDEN GATE
Airplane and ground views reveal the strategic location, prosperity and beauty of San Francisco and the Bay.

2-19 YOSEMITE PARK
Beautiful drives, mountains, falls, Camp Curry.

MEXICO
2-20 MEXICO CITY
History, people, palaces and parks.

WEST INDIES
2-21 ISLES OF ROMANCE
Scenic and historic points of interest in the British West Indies.

Islands of the Pacific

HAWAIIAN ISLANDS
2-22 HAWAIIAN ISLANDS
Honolulu and its surroundings; the pineapple industry; native life; the sugar cane industry; Kilauea.

2-23 VOLCANO KILAUEA
Scenes of Kilauea from 1918-1924.

2-24 ISLAND OF HAWAII
Scenes along Hilo Railroad; Cook's Monument; and many other places of interest.
List of Visual Aids

2-25 KAUAI, THE GARDEN ISLAND ........................................ 1
The attractions of Kauai in great detail.

2-26 ISLAND OF MAUl ..................................................... 1
Scenes of Amah Drive, crater of Haleakala.

NEW ZEALAND
2-27 NEW ZEALAND'S THERMAL REGIONS ................................. 1
Hot springs and geysers.

AUSTRALIA
2-28 SHEEP STATION IN NEW SOUTH WALES ......................... 1
Life and activities on a sheep ranch.

TAHITI
2-29 SCENES IN AND AROUND TAHITI ................................ 1

PHILIPPINE ISLANDS
2-30 THE PHILIPPINE ISLANDS ............................................ 1
Manila; a sugar plantation; coconut and rice industries; hemp industry.

Europe

BELGIUM, HOLLAND AND NORWAY
2-31 BELGIUM, HOLLAND AND NORWAY ................................ 1
The cities of Brussels and Bruges; canals and streets of Amsterdam; fjords of Norway.

CORSICA
2-32 CORSICA—NAPOLEON'S HOME LAND ................................. 1
The daily life of the Corsicans in city, country and coast.

BRITISH ISLES
2-33 SEEING ENGLAND AND SCOTLAND ................................ 1
Town and country scenes.

FRANCE
2-34 SEEING PARIS .......................................................... 1
An interesting sightseeing tour.

HOLLAND
2-35 THE LITTLE DUTCH TULIP GIRL .................................. 1
Holland as seen by a little child.

SWITZERLAND
2-36 THE LITTLE SWISS WOOD CARVER ................................. 1
Industries of Switzerland.

Asia

2-37 BITS OF CHINA ....................................................... 1
Cities, palaces, tombs, canals and sampans.

2-38 SEEING JAPAN .......................................................... 1
Yokohama, Sacred Fuji, temples, and the Great Daibutsu at Kamakura.

2-39 JAPAN IN SPRING ..................................................... 1
Cherry blossoms and other flowers; dancing; Boys' Day celebration.

2-40 JAPAN IN SUMMER ..................................................... 1
Summer resorts; golf; swimming; camping; sailing; hiking.

2-41 JAPAN IN AUTUMN ..................................................... 1
Chrysanthemum, autumn's queen flower; Tokyo's sport season; diving, high jumping, touring and wrestling.

2-42 JAPAN IN WINTER ..................................................... 1
Skiing and ice skating; New Year's celebration.

2-43 NARA AND KYOTO ..................................................... 2
Temples, street scenes, customs, people.

2-44 OSAKA ................................................................. 1
A new film of this interesting city.

2-45 GLIMPSES OF INDIA ................................................ 1
Natives, streets, caravans, temples.

2-46 INDIA ................................................................. 1

2-47 THE MALAYS OF SUMATRA .......................................... 1
Rice cultivation and a wedding.

2-48 A HOME IN THE TROPICS ........................................... 1
A grass house of Fiji.

2-49 KOREA AND JAVA ..................................................... 1

(10)
INDUSTRIES

AUTOMOBILE
3—1 AUTOMOBILE, THE ........................................... 1
Various steps in the manufacture of an automobile including "shots" of the steel, rubber, glass and oil industries.

FOOD
3—2 CHEESEMAKING—TRIUMPH OF A CENTURY .......... 2
Views of the Chicago Exposition; early and modern methods of making cheese.
3—3 CHEDDAR CHEESE (Oct. to Jan. 1) ................. 3
How cheddar cheese is made in a leading dairy state. Traces milk from farm to finished product.
3—4 MAKING MAPLE SYRUP .................................... 1
Gathering sap and making sugar.
3—5 MAINTAINING THE SALMON SUPPLY .................. 1
Salmon hatchery operations in British Columbia.
3—6 STORY OF A CAN OF SALMON ......................... 1
Salmon canning in British Columbia.
3—7 MEAT PACKING ............................................. 1
From cattle ranch to stockyard; dressing and curing meat.
3—8 NEW ENGLAND FISHERIES ................................ 2
3—9 RICE ......................................................... 1
The rice industry of Japan.
3—10 PILLARS OF SALT (Apr.) ............................... 1
3—11 ACROSS THE SEVEN SEAS .............................. 1
Manufacture of tapioca.
3—12 WHEAT TO BREAD ....................................... 1
Flour making in pioneer days and today; modern methods of bread making.
3—13 A TRIP THROUGH A HONOLULU BAKERY ............ 1
Shows how bread, cookies and crackers are made in a modern Honolulu bakery.

FURNITURE
3—14 FURNITURE MAKING .................................... 1
Contrasts the important period styles of the past with present; shows master craftsmen at work and outlines modern methods in machine production.

GOVERNMENTAL
3—15 MONEY MAKING INDUSTRY ............................. 1
A trip through the mint at Ottawa, Canada.
3—16 POST OFFICE—ONE OF UNCLE SAM'S WORKSHOPS . 1
Follows a letter's journey from sender to receiver. How postage stamps are made.
3—17 IRON ORE TO PIG IRON .................................. 1
Actual scenes and animate drawings give a complete visualization of iron ore mining, transportation and smelting.
3—18 PIG IRON TO STEEL .................................... 1
A continuation of the above from open hearth furnace to finished rails as product.
3—19 WELDED STEEL HOUSE, THE (Oct. to Jan. 1) 1
Shows the construction of a welded steel house at the Century of Progress Exposition.

KODAKS AND FILMS
3—20 QUALITY IN KODAKS .................................... 2
Various steps in the manufacture of cameras. Testing of materials used.
List of Visual Aids

3—21 HOW KODAK FILM IS MADE .......................... 2
A trip through Kodak Park. Shows the processes from the making of the celluloid backing to the finished sensitive film.

LUMBERING
3—22 FELLING FOREST GIANTS .......................... 1
Lumbering in North Carolina.

MINING AND QUARRYING—BUILDING MATERIAL
3—23 ANTHRACITE COAL ...................................... 1
The miner; blasting and removing coal from mine; the breaker; cleaning and grading.
3—24 BITUMINOUS COAL ..................................... 1
The story of bituminous coal mining and coke making.
3—25 LIMESTONE AND MARBLE ............................. 1
Quarrying and preparation of limestone and marble for use on roads, in buildings and for sculpture.
3—26 SAND AND CLAY ........................................ 1
Granite, quartz and sand, with products of artificial and natural sandstone. Essential operations in making plate glass. Relationship between felspar, clay, slate, with clay products of brick and tile.

POTTERY
3—27 TABLEWARE .................................................. 1
The story of the modeling, firing and decorating of dishes.

PAPER
3—28 PAPER MAKING (Nov. only) ............................. 3
How parchment, waxed and bond papers are made.
3—29 THE WORLD OF PAPER (Dec. and Jan.) .......... 2
The development of writing, printing and paper making from ancient times to the present.
3—30 FROM TREE TO NEWSPAPER ............................. 1
How logs are made into wood pulp and pulp into paper.

POWER
3—31 WATER POWER .................................................. 1
The importance of water power in generating electricity for industrial and home use.
3—32 ELECTRIC POWER IN THE SOUTHERN APPALACHIANS ............................................. 1
The progress in industry and the changes in living conditions resulting from the development of hydroelectric power.

PRINTING
3—33 STORY OF A BOOK ........................................... 1
From manuscript to classroom.

RUBBER
3—34 CENTURY OF PROGRESS IN RUBBER, A (Oct. to April) ................................................... 2
Scenes at the Chicago World’s Fair and the making of rubber tires and rubber products.
3—35 RUBBER ......................................................... 1
Producing crude rubber; compounding; rubber products.
3—36 RUBBER PLANTATION ...................................... 1
From seed to latex.
3—37 RUBBER INDUSTRY OF SUMATRA ...................... 1
Manufacturing and transportation.

STOCK EXCHANGE
3—38 NATION’S MARKET PLACE, THE ...................... 2
The manner in which a broker and purchaser are brought together for the transaction of buying and selling stocks on the floor of the New York Stock Exchange is illustrated.
<table>
<thead>
<tr>
<th>Textiles</th>
<th>Civilization's Fabric</th>
<th>From Flax to Linen</th>
<th>Silk</th>
<th>Woolen Goods</th>
<th>Nature Study</th>
<th>Biography, Literature, and History</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-39 Cotton—From Seed to Cloth</td>
<td>3-40 Civilization's Fabric</td>
<td>3-41 From Flax to Linen</td>
<td>3-42 Silk</td>
<td>3-43 Silk</td>
<td>4-1 Babies of Wild Animals</td>
<td>5-1 Benefactor, The (Oct. only)</td>
</tr>
<tr>
<td>The story of the cotton industry from seed to cloth.</td>
<td>Manufacture of cotton cloth.</td>
<td>From plant and seed stage to cloth manufacture.</td>
<td>The silk industry of Japan.</td>
<td>The silk worm industry of the Orient; shipping raw silk; weaving.</td>
<td>Horned toads, bears, camels, and a zebra.</td>
<td>The story of Thomas A. Edison's life from 5 years of age to the time he achieved his greatest success, and gave to the world the benefits of his inventions.</td>
</tr>
<tr>
<td>3-44 Woolen Goods</td>
<td>Traces sources of wool and contrasts old methods of carding, spinning, and weaving with factory methods.</td>
<td>Complete operation involved in making an overcoat.</td>
<td>The silk industry of Japan.</td>
<td>The silk worm industry of the Orient; shipping raw silk; weaving.</td>
<td>Watch Mrs. Spider spin; the butterfly evolve.</td>
<td>From his story; scenes in Stratford-on-Avon.</td>
</tr>
<tr>
<td>NATURE STUDY</td>
<td>4-2 The Spider and Butterfly</td>
<td>4-3 Ants</td>
<td>4-4 Growing Things</td>
<td>4-5 Down at Our Pond</td>
<td>4-6 Friends to Man</td>
<td>4-7 Earth and Clouds</td>
</tr>
<tr>
<td>4-8 Wild Flowers</td>
<td>4-9 Soy Beans and Night Blooming Cereus</td>
<td>4-10 In Birdland</td>
<td>4-11 Dwellers of the Deep</td>
<td>In the New York Zoological Society Aquarium.</td>
<td>4-12 The American Eider Duck</td>
<td>4-13 Luther Burbank</td>
</tr>
<tr>
<td>Watch flowers open and close.</td>
<td>Time lapse photography.</td>
<td>Mother birds teach young.</td>
<td>A visit to the home of the 'Plant Wizard' who explains how different plants have been improved.</td>
<td>Breeding places; mother and young; gathering and cleaning eider down; commercial uses.</td>
<td>American fauna as it existed in the 16th century contrasted with the fauna of today; wild creatures shown in their natural haunts.</td>
<td>A visit to the home of the 'Plant Wizard' who explains how different plants have been improved.</td>
</tr>
<tr>
<td>4-14 Our Wild Life Resource (Oct. to March 1)</td>
<td>4-15 How Seeds Germinate (Oct. to March 1)</td>
<td>A slow motion picture showing how seeds of the crimson clover and other plants germinate.</td>
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</tr>
</tbody>
</table>

(13)
BIOLOGY

6-1 BACTERIA
A culture medium is made, bacteria grown and examined.

6-2 THE BLOOD
Separation of plasma; counting red blood corpuscles; clotting of blood.

6-3 CIRCULATION
Human circulatory system traced; human heart compared with that of a frog.

6-4 CIRCULATORY CONTROL
Pressure of blood in arteries illustrated; methods of measuring blood pressure.

6-5 DIGESTION
Covers the complete digestive tract.

6-6 INSIDE OUT
The alimentary canal and the eating process visualized.

6-7 LIVING CELL
Pictures the division and growth of single celled organisms.

6-8 MICROSCOPIC ANIMAL LIFE
Amoeba, paramecium, vorticella and others magnified.

6-9 THE SKIN
Contrasts the skins of various animals, sensation.

6-10 TERMITES
Partial life history of subterranean, rotten-wood, and sound-wood termites; some of the protective measures used against these insects.

HEALTH

6-11 BREATHING
Scenes and animation stress the importance of good lungs, etc.

6-12 DIPHTHERIA
A diphtheric throat is compared with a normal one; preparation and use of antitoxin is demonstrated.

6-13 POSTURE
Good posture both standing and sitting.

6-14 SEWAGE DISPOSAL
Deals with purification by Imhoff Tank and sprinkling filter; disposal into the ocean.

6-15 TUBERCULOSIS AND HOW IT MAY BE AVOIDED
A tuberculin test is given.

6-16 BENDING THE TWIG
Cleanliness and food.

6-17 FOOD AND GROWTH
A feeding experiment with white rats carried on in classroom shows food value of milk as compared with coffee and candy.

6-18 GOOD FOODS—A DRINK OF WATER—BREAD AND CEREALS
Importance of water and cereals in growth of children.

6-19 FOOD MAKES A DIFFERENCE
The results of proper nutrition for children; development and growth of flesh and bone.

6-20 MILK FOR YOU AND ME; FRUITS AND VEGETABLES
Shows persons of all ages drinking milk. Animals and children eating fruits and vegetables.

6-21 PURIFYING WATER
City water from lakes; removal of sediment; disinfecting and testing water.

6-22 LIFE HISTORY OF THE YELLOW FEVER MOSQUITO
Pictures the complete metamorphosis of the mosquito. Suitable also for classes in science. Use in conjunction with 6-23.

6-23 THE MOSQUITO—REASONS FOR ITS PREVALENCE IN HONOLULU
Breeding places; how they may be eliminated.
6—24 HOW TO GET RID OF RATS (Feb. to May 1) … 1
Various methods of rat control. Views of wild rats in action. (May be used in connection with health and agriculture.)

SCIENCE

6—31 COMpressed AIR ............................. 1
Enumerates the principles underlying the compression of air and its practical applications.

6—32 ATMOSPHERIC PRESSURE ....................... 1
Atmospheric variations in pressure between valley and hill-top, and between land and water, are clearly presented.

6—33 YOUR Sixth SENSE ............................. 1
Atmospheric temperature and its relation to the human body. Uses of different thermometers.

6—34 REFRIGERATION .................................. 1
The ammonia compression system of refrigeration applied to artificial ice-making and mechanical refrigerators.

6—35 GLASS BLOWING .................................. 1
Part 1 gives correct procedure and manipulations for elementary glass blowing with Pyrex glass. Part 2 shows technique in joining tubes of unequal diameters and method of forming bulbs.

6—36 OPTICAL ILLUSIONS AND THE KALEIDOSCOPE .................................. 1
How eyes tell lies; geometrical designs created with the kaleidoscope.

6—37 THE SUN—ITS INFLUENCE ON THE EARTH .. 1
A thorough study of the sun presented in series of unusual episodes.

6—38 GRAVITATION—THE MOON: CONStEL-LATIONS .................................. 1
Newton's theory explained; tides; phases of the moon.

6—39 DIGGING UP THE PAST .......................... 1
How dinosaurs are located and secured. Work of assembling fossilized bones of prehistoric monsters at Royal Victoria Museum, Ottawa.

6—40 VOLCANOES ...................................... 1
Quiet overflow and explosive types; life history of a volcanic cone; subjects include Hawaiian volcanoes, the Palisades, South American volcano, Mt. Vesuvius, Lassen Peak.

6—41 PETROLEUM GEOLOGY (Oct. to April 1) ...... 3
The formation of earth folds and faults in typical oil structures. Animated changes through the geological history of the North American Continent. Types of life that existed during different geological periods.

6—42 SIMPLE MACHINES .................................. 1
The simple machines, lever and inclined plane, are developed as fundamental to other machines. Complex machines shown to be combinations of simple ones.

6—43 WATER CYCLE .................................... 1
The continuous circulation of water from earth to sky and back to earth, with examples of evaporation, condensation, precipitation, storage and run-off.

6—44 NEW YORK WATER SUPPLY ....................... 1
Views of New York City; follows New York's water supply from the Catskill Mountains to its distribution.

TRANSPORTATION

7—10 WHEELS OF PROGRESS .......................... 1
The story of transportation in America from the day of the bicycle and the fancy turnout to modern methods of transportation.

7—11 KING OF THE RAILS (Jan. to April 1) .......... 1
Evolution of transportation on land.

7—12 STORY OF THE AIRSHIP .......................... 1
From balloon to airship; views of the Los Angeles, the Akron; Lindbergh, Amelia Earhart Putnam, other public figures.
## List of Visual Aids

<table>
<thead>
<tr>
<th>List</th>
<th>Description</th>
<th>Pages</th>
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</thead>
<tbody>
<tr>
<td>7-13</td>
<td>TRANSPORTATION ON THE GREAT LAKES</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Changes which took place in formation of Great Lakes; opening of spring navigation, loading of ore and grain freighters, passing thru “Soo” locks; car ferries, package and passenger lines.</td>
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<tr>
<td>7-14</td>
<td>OCEAN LINERS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The building and launching of an ocean liner, balancing cargo, stockinge up with supplies, inspecting, navigating.</td>
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<tr>
<td></td>
<td>(See also 2-16 and 2-17 Class A.)</td>
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</tr>
<tr>
<td>7-15</td>
<td>QUEEN OF THE WAVES (Jan. to Apr. 1)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The story of the development of American navigation.</td>
<td></td>
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<tr>
<td>7-16</td>
<td>THE PANAMA CANAL</td>
<td>1</td>
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<tr>
<td></td>
<td>Scenes and animated drawings locate the canal and picture the task of sanitation and construction.</td>
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<tr>
<td>7-17</td>
<td>THE STORY OF TRANSPORTATION IN HONOLULU</td>
<td>1</td>
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<tr>
<td></td>
<td>How modern methods of transportation have succeeded those of earlier days.</td>
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</tbody>
</table>

## Vocational Guidance

<table>
<thead>
<tr>
<th>List</th>
<th>Description</th>
<th>Pages</th>
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</thead>
<tbody>
<tr>
<td>7-20</td>
<td>THE FARMER</td>
<td>1</td>
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<tr>
<td></td>
<td>Life on a diversified farm. Corn, hay and grain, livestock, home and social life.</td>
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<tr>
<td>7-21</td>
<td>THE SKILLED MECHANIC</td>
<td>1</td>
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<tr>
<td></td>
<td>Construction of reinforced concrete building showing work of various skilled laborers.</td>
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<tr>
<td>7-22</td>
<td>THE ENGINEER</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The man who solves problems. Designing bridges, tunnels.</td>
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</tr>
<tr>
<td>7-23</td>
<td>THE DOCTOR</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Growth of medical knowledge, practice, studious and busy life of a doctor, working in laboratory and hospital.</td>
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<tr>
<td>7-24</td>
<td>MECHANICS OF THE NATION’S MARKET PLACE</td>
<td>2</td>
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<tr>
<td></td>
<td>This picture traces the career of the young man who enters the employ of the New York Stock Exchange.</td>
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</tbody>
</table>

## Manual Training

<table>
<thead>
<tr>
<th>List</th>
<th>Description</th>
<th>Pages</th>
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<tbody>
<tr>
<td>7-25</td>
<td>MAKING A TABORET</td>
<td>1</td>
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<tr>
<td></td>
<td>A manual training teacher shows all the steps in making a taboret.</td>
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</tbody>
</table>

## Women's Interests

<table>
<thead>
<tr>
<th>List</th>
<th>Description</th>
<th>Pages</th>
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<tbody>
<tr>
<td>7-30</td>
<td>HOME IS WHAT YOU MAKE IT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>How a dilapidated house was improved by repairs, painting, and landscaping of grounds.</td>
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</tr>
<tr>
<td>7-31</td>
<td>WITHIN THE GATES</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>The part women play in mass production; the development of the factory system; complete story of the textile industry as illustrated by the manufacture of a shirt.</td>
<td></td>
</tr>
<tr>
<td>7-32</td>
<td>THE WOMAN WORKER PAST AND PRESENT</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Women’s industrial activities in a former era when women did spinning, weaving, sewing, and baking in their own home—contrasted with their occupations in factories, mills and workshops today.</td>
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</tbody>
</table>

## Citizenship and Civics

A teacher’s guide and lesson plan is furnished with each of the following:

<table>
<thead>
<tr>
<th>List</th>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-44</td>
<td>IMMIGRATION</td>
<td>1</td>
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<tr>
<td></td>
<td>The story of an immigrant family; their first impressions of America.</td>
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<tr>
<td>9-45</td>
<td>STEPS TOWARD AMERICAN IDEALS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The first processes in Americanization; participation in civic life; the taking out of &quot;the first papers.&quot;</td>
<td></td>
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</tbody>
</table>
9-46 SERVICE
Various types of service as keynote to good citizenship; home service, social service, economic service, political service.

9-48 THRIFT
How thrift may be practiced in matters of health, dress, time, etc., as well as in earning and spending; the practice of thrift as a part of character building.

9-49 HEALTH HABITS
A contrast of modern urban conditions with pioneer conditions; reasons for a health program embracing fresh air, sunshine, cleanliness, exercise, pure food.

9-50 THE SCHOOL BEAUTIFUL
A school undertakes to beautify its school grounds as part of a citizenship program.

9-51 OBEDIENCE AND SCHOOL DISCIPLINE
A lesson in obedience and cooperation. Self-discipline as a governing principle in the modern school.

9-52 SCHOOL INDUSTRIES
Manual training, gardening and domestic science as a means of training children in habits of industry and an appreciation of productive activity.

9-53 WORKING WITH CIVIC ORGANIZATIONS
School children as members of the Junior Chamber of Commerce assist in a program of civic betterment.

9-54 SERVING THE COMMUNITY
School children carry on a campaign against the housefly as a means of protecting community health.

9-55 SAFETY AT SEA
The utilization of government agencies for the protection of ships and lives at sea.

Class F

STREET ACCIDENT PREVENTION

10—1 STREET SAFETY FOR PRIMARY GRADES
A police dog is used to illustrate lessons in crossing the street. Simple captions.

10—2 STREET SAFETY FOR ADVANCED GRADES
Dangers of playing in the streets. Lessons in accident prevention.

Class B

16 mm. Films

HISTORY

No. of Reels Rental

GEORGE WASHINGTON

14—1 CONQUERING THE WILDERNESS
Washington’s boyhood; surveying the Fairfax lands; his trip to the Ohio country; the Braddock disaster. $1.50

14—2 UNITING THE COLONIES
Frontier life; Washington becomes member of House of Burgesses; the break with England; Lexington and Concord; Washington appointed Commander in Chief of Continental Armies. 1.50

14—3 WINNING INDEPENDENCE
Equipping and drilling the army; the Declaration of Independence; battles of the Revolution; Cornwallis surrenders. 1.50
14—4 BUILDING THE NATION
Opposition of states to strong, central government; the Continental Convention; Washington becomes first president; his service in building the nation; return to Mt. Vernon.

ABRAHAM LINCOLN
14—5 THE PIONEER
Lincoln’s youth; first contacts with the world, slavery, politics; postmastership at New Salem; removal to Springfield; marriage and family life; Lincoln-Douglas debates; endorsement and nomination for President; departure for Washington.

14—6 THE STATESMAN
Lincoln’s responsibilities during critical period; Fort Sumter; call for and arrival of volunteers; scenes of war; Lincoln’s clemency; Emancipation Proclamation; Gettysburg; final campaigns; Lee’s surrender; Lincoln’s death.

THEODORE ROOSEVELT
14—7 T. R. HIMSELF
The high lights of Theodore Roosevelt’s strenuous career. An accurate, visualised, dramatic survey of American history from 1901 to 1909.

14—8 ROOSEVELT, THE GREAT SCOUT
A boy of New York comes to Roosevelt House with a group of Boy Scouts and after seeing a motion picture of Roosevelt illustrating the theme “Building bodily vigor for national service”—joins the Scouts.

14—9 ROOSEVELT VISITS HAWAII
Arrival in Honolulu, reviews troops at Schofield.

THE CHRONICLES OF AMERICA
By special arrangement with Yale University Press, the rental on each subject has been reduced from $10.00 to $7.50, and from $160.00 to $100.00 for the entire series. Schools desiring to use the entire series may pay the rental over period of a year. A special price will be quoted those who have used the Chronicles the preceding year.

The Chronicles of America history reference books, on which the pictures are based, are available in the University Library.

No. of Reels Rental

15—1 COLUMBUS 
(From “the Spanish Conquerors”) The “mad Italian” is shown searching for some one who will believe with him that the world is round. At last he gains the ear of King Ferdinand and Queen Isabella, and with their aid sets forth with his tiny fleet of three ships on the voyage that is to open up a new world. The mutiny of his sailors, the dangers of the high seas, and the eventful landing upon Watling Island are depicted with beauty and interest. The authentic model of Columbus’ flagship, the Santa Maria, built by the Spanish government for the World’s Fair in Chicago, is used in this picture.

15—2 JAMESTOWN 
(From “Pioneers of the Old South”) In 1612 both Spain and England wished to get control of North Amer-
Jamestown, Va., was the first permanent settlement of English people in America, and the fact that it survived the rigors of life in the wilderness surrounded by tribes of Indians which might at any moment join their forces with Spain and wipe them out, was due largely to the guiding and restraining hand of Sir Thomas Dale, the governor. The story of Pocahontas' capture, followed by her marriage to John Rolfe, of Jamestown, and the breaking of Spanish influence over Powhatan, are here pictured.

15—3 PILGRIMS, THE ............................ 3 7.50
(From "The Fathers of New England")
A picture of the struggle for religious freedom as typified by the Pilgrims. The Separatist movement, the voyage of the Mayflower, the hardships and suffering of the settlers during their refusal to return to England, are shown in a manner which reveals the simple faith of the Pilgrims and their devotion to the ideals of freedom of religious thought and expression.

15—4 PURITANS, THE ......................... 3 7.50
(From "The Fathers of New England")
On the "stern and rock-bound coast" of New England the Puritans set up a colony in the wilderness. Threatened with the removal of their charter, they decided to defend their liberty and their religion, but were not called upon to do so, since England had too many troubles at home to bother about one small colony.

15—5 PETER STUYVESANT .................. 3 7.50
(From "Dutch and English on the Hudson")
The events from 1658 to 1664 through which Dutch New Amsterdam became English New York. Life in the colony under the stern rule of Stuyvesant, the frivolity of the court of Charles II, the decision to send a fleet to New Amsterdam, the revolt of Stuyvesant's citizens against his autocratic attitude, and the bloodless conquest of the Dutch colony are dramatically pictured in the play.

15—6 GATEWAY TO THE WEST, THE ........ 3 7.50
(From "The Conquest of New France")
A dramatization of that heroic portion of our national epic when France, working south from Canada, and England, pressing westward from her colonies along the Atlantic Coast, began the inevitable conflict over the vast wilderness west of the Alleghenies. This film presents George Washington for the first time in this series of pictures, here shown as a young colonel.

15—7 WOLFE AND MONTGOMALM ............. 3 7.50
(From "The Conquest of New France")
As a result of the work of William Pitt, the colonial empire of New France was shattered and the bulk of the power in the New World transferred to Great Britain. The statesmanship of Pitt, the strategy of Wolfe, the obstacles faced by Montcalm through the jealousy of the governor general, and the spectacular battle waged on the Plains of Abraham, form the background and drama of this stirring picture.

15—8 EVE OF THE REVOLUTION, THE ...... 3 7.50
(From "The Eve of the Revolution")
The Boston tea party, Boston massacre, ride of Paul Revere and the
List of Visual Aids

battles of Lexington and Concord, make up the substance of this picture which traces the events leading up to the Revolution.

15—9 DECLARATION OF INDEPENDENCE, THE ........................................... 3 7.50
(From "The Eve of the Revolution")
The stirring account of the efforts of a small group of patriots to bring about a unanimous vote in favor of independence reveals in striking fashion the three outstanding attitudes of public opinion, as represented by the Tories, the Conservatives, and those in favor of absolute independence. The unofficial gathering of delegates, the proceedings of the Second Continental Congress, the famous session of July 2, 1776, and the formal adoption of the Declaration on July 4, are all pictured in an unforgettable and dramatic manner.

15—10 YORKTOWN ................................................ 3 7.50
(From "Washington and His Comrades in Arms")
Cornwallis was forced to surrender to the united French and American forces at Yorktown in 1781. At the beginning of the year it had looked as if the American cause was hopeless. The British became so sure of ultimate victory that they refused to listen to rumors that the French fleet was on its way, and in September the French entered Chesapeake Bay, thus aiding the Colonials in bringing about the English defeat.

15—11 VINCENNES ............................................. 3 7.50
(From "The Old Northwest")
A forceful and inspiring story of the exploits of George Rogers Clark, who in 1779 made his bold winter dash upon Vincennes, headquarters of Hamilton, British governor general of the Northwest. By his capture of this post, Clark broke the influence of the British over the Indians who had opposed the westward spreading American colonists, and won for the republic the vast territory from which were formed the states of Ohio, Indiana, Illinois, Michigan and Wisconsin.

15—12 DANIEL BOONE ........................................ 3 7.50
(From "The Pioneers of the Old Southwest")
The courage and unconquerable spirit of the early pioneers, as typified by the adventurous career of Daniel Boone, are shown in this picture.

15—13 FRONTIER WOMAN, A .................................. 3 7.50
(From "The Pioneers of the Old Southwest")
Designed to reveal the courage and fortitude of America's pioneer women and the part played by them in the making of our nation. This film relates the story of the settlement of Watauga, in the mountains of Tennessee, in 1780.

15—14 ALEXANDER HAMILTON ............................... 3 7.50
(From "Washington and His Colleagues")
Hamilton was an aide to General Washington in the Revolutionary War. The greatest service he rendered his country, however, was after the coming of peace, when Washington selected him for Secretary of the Treasury, and he had to re-establish the value of paper money. Alexander Hamilton was a great statesman as well as a banker and soldier as this subject emphasizes with dramatic episodes from his life.

15—15 "DIXIE" .................................................. 3 7.50
(20)
Southern women sacrificed for "Dixie" just as Northern women did for their homeland. This film reveals scenes of great poignancy from south of the Mason and Dixon line. Grant meets Lee at Appomatox, and the story has as its climax the surrender of the Southern to the Northern general.

**MISCELLANEOUS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Reels</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-49</td>
<td>Bobby's Ark</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>8-50</td>
<td>Mother Goose Rhymes</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>8-51</td>
<td>Bobby Bumps Goes Fishing</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>8-52</td>
<td>Bobby Bumps at the Circus</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>8-53</td>
<td>Our Dog Friends and Furry</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>8-56</td>
<td>Who's Zoo</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>8-57</td>
<td>Jack and the Beanstalk</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>9-58</td>
<td>The Adventures of Peter</td>
<td>1</td>
<td>1.00</td>
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</tbody>
</table>

*From "The Day of the Confederacy"

**PART II**

**Class A**

**35 mm. Films**

**AGRICULTURE**

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Reels</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-50</td>
<td>The Babcock Test (Sound on film—Oct. 1 to Feb. 1)</td>
<td>1</td>
<td>This film brings us the voice of the late Dr. Stephen M. Babcock, describing how he invented the Babcock test which revolutionized the dairy industry throughout the world. (This film may also be used as a silent picture.)</td>
</tr>
<tr>
<td>1-51</td>
<td>Embryology of the Egg (Oct. 1 to Feb. 1)</td>
<td>1</td>
<td>How the hen's fertile egg develops into a chick.</td>
</tr>
<tr>
<td>1-52</td>
<td>Hawaii Livestock</td>
<td>1</td>
<td>Livestock parade at 1927 Territorial Fair. Views of the champions.</td>
</tr>
<tr>
<td>1-53</td>
<td>Partners Three</td>
<td>4</td>
<td>A dramatic human interest story of young boys and girls on the farm, presenting the ideals of 4-H Club work. City as well as rural schools should see this picture.</td>
</tr>
<tr>
<td>1-54</td>
<td>Producing Quality Chicks (Feb. to May 1)</td>
<td>1</td>
<td>How the up-to-date hatchery safeguards its chicks by careful choice of breeding stock and attention to sanitation.</td>
</tr>
<tr>
<td>1-55</td>
<td>The Turkey Business (Oct. to Feb. 1)</td>
<td>1</td>
<td>Turkeys are raised for market by modern methods of feeding and management.</td>
</tr>
</tbody>
</table>
## List of Visual Aids

### GEOGRAPHICAL AND SCENIC

#### 35 mm. Films

#### North America

<table>
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<tr>
<th>Location</th>
<th>Title</th>
<th>No. of Reels</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANADA AND GREENLAND</td>
<td>2- 2 BIRDS OF BONAVENTURE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Glimpses of the famous Canadian bird sanctuary at Bonaventure Island in the Gulf of St. Lawrence.</td>
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<tr>
<td></td>
<td>2- 3 POLICING THE ARCTIC</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The work of the Canadian mounted police.</td>
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<tr>
<td></td>
<td>2- 4 APPLES OF ANNAPOLIS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The apple industry in Nova Scotia.</td>
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<tr>
<td></td>
<td>2- 5 WHERE WINTER SPORT IS KING</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The many ways in which Canadians revel in winter sports.</td>
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<tr>
<td></td>
<td>2- 6 MONARCHS OF THE PLAINS</td>
<td>1</td>
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<tr>
<td></td>
<td>Wainright, Alberta.</td>
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<tr>
<td></td>
<td>2- 7 GLIMPSES OF GREENLAND</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Godhavn, capital of Greenland; glimpses of Eskimos and their lives.</td>
<td></td>
</tr>
<tr>
<td>UNITED STATES</td>
<td>2- 8 TWO THOUSAND MILES OF STARTLING BEAUTY</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Portland, Seattle, Mt. Rainier, Spokane, Montana ranches, cowboys, Indians, Minneapolis, St. Paul.</td>
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<tr>
<td></td>
<td>2- 9 TOWERING WONDERS</td>
<td>1</td>
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<tr>
<td></td>
<td>The mountain scenery of the West.</td>
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<tr>
<td></td>
<td>2-10 SIXTY MINUTES FROM BROADWAY</td>
<td>1</td>
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<tr>
<td></td>
<td>In and around Los Angeles! Ostrich farms, zoos, oranges and missions.</td>
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<tr>
<td></td>
<td>2-11 TRAILING THE WESTERN SUN</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>A tour along the Western Coast from Tia Juana to Mt. Shasta.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-12 WHERE THE SUN PLAYS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>In Southern Arizona, plenty of cattle, cowboys and Indians.</td>
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<tr>
<td></td>
<td>2-13 YOSEMITE NATIONAL PARK</td>
<td>1</td>
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<tr>
<td></td>
<td>A horseback trip to points of interest in the park.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-14 WINTER SPORTS IN YOSEMITE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Tobogganing, snowshoeing, skating, hockey, ski-jumping, winter carnival.</td>
<td></td>
</tr>
<tr>
<td>MEXICO</td>
<td>2-15 MEXICO</td>
<td>½</td>
</tr>
<tr>
<td></td>
<td>Animated map study.</td>
<td></td>
</tr>
</tbody>
</table>

#### South America

<table>
<thead>
<tr>
<th>Location</th>
<th>Title</th>
<th>No. of Reels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-21 AMAZON TRAILS AND THE ORINOCO</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Methods of transportation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-22 OVER THE ANDES, LIMA, PERU</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mining village, pictures and llamas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-23 GOING DOWN TO BUENOS AIRES</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Scenes in the harbors of Brazilian coast cities. Views of Buenos Aires.</td>
<td></td>
</tr>
</tbody>
</table>

#### Asia

<table>
<thead>
<tr>
<th>Location</th>
<th>Title</th>
<th>No. of Reels</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPAN</td>
<td>2-24 OLD NIPPON</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Street scenes, customs, fakirs, dances, temples.</td>
<td></td>
</tr>
<tr>
<td>DUTCH EAST INDIES</td>
<td>2-31 CONQUERING A JUNGLE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Clearing 20,000 acres of jungle preparatory to planting young rubber trees.</td>
<td></td>
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<tr>
<td></td>
<td>2-32 ISLAND OF YESTERDAY (SUMATRA)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Life on a rubber plantation.</td>
<td></td>
</tr>
</tbody>
</table>

(22)
HAWAIIAN ISLANDS
2—38 DOWN HAWAII WAY ............................. 1
Entertainment on a liner Honolulu bound.
Familiar scenes of all the islands in color.
2—34 ACTIVITIES AT UNIVERSITY OF HAWAII .... 1
Scenes of buildings on campus. Freshman
Week, Commencement Exercises, U. of H.
R.O.T.C., Football games.

INDUSTRIES
35 mm. Films
MANUFACTURING
3—50 CITRUS FRUITS AND FRUIT DROPS .......... 1
Transformation of citrus fruits into candy.
3—51 PEANUTS ........................................ 1
Growing and harvesting of the crop; making
peanut butter.
3—52 HISTORIC MOHAWK VALLEY ..................... 1
Historic sites dating back to Colonial days.
The home of the Beechnut Co., showing manu-
facture of various products.
3—53 MAN'S GREATEST HERITAGE .................... 1
The evolution of the alphabet, beginning with
picture writing.
3—54 ANTHRACITE COAL ............................. 1
The story of anthracite coal mining.
3—55 QUARRYING ASBESTOS ......................... ½
Processes in quarrying asbestos.
3—56 WHEN BLACK IS READ ........................... 1
How the modern newspaper is printed.

RUBBER
See 2—31 and 2—32.
3—57 MAKING SHOES ..................................... 1
Shows all processes.
3—58 STARRETT TOOLS .................................. 2
How squares, calipers, protractors and steel
tapes are made.

BIOGRAPHY AND LITERATURE
35 mm. Films
5—50 WASHINGTON IRVING .......................... 1
Story of his life; characters from the Sketch
Book.
5—51 JULIUS CAESAR .................................... 5
A photo-masterpiece, posed and executed in
and about Rome, Italy.
5—52 FAMOUS AUTHORS VISITING UNIVERSITY
OF HAWAII ............................................. 1
Show tree planting Exercises on University of
Hawaii Campus. Trees planted by Hamlin
Garland, December 1932, Christopher Morley,
March 1933, Thornton Wilder, November 1933,
Carl Sandburg, March 1934.

HISTORY AND CIVICS
35 mm. Films
5—53 OLD GLORY ........................................ 1
The story of our flag.
5—54 THE BLUE AND THE GREY ...................... 1
Veterans of the Civil War at Vicksburg.

FIRE PREVENTION
5—55 FIRE .............................................. 1
Carelessness as the cause of many fires.
5—56 THROUGH THE AGES ................................ 1
The history of fire; prevention explained and
emphasized.

(23)
<table>
<thead>
<tr>
<th>List of Visual Aids</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 mm. Films</td>
</tr>
</tbody>
</table>

### SCIENCE

- 6-50 The beginning of the machine age; early developments in steam and gas engines — 1
- 6-51 The power of falling water to create electricity; water resources in U.S.; coal resources in U.S.; origin of modern steam turbine engine — 1
- 6-52 Development of power plants from 1882 to present — 1
- 6-53 ELECTRICITY IN THE MOTOR CAR — 1
  Electrical development as it has affected the motor car. Animated drawings illustrate various parts.
- 6-54 HOW THE GENERATOR WORKS — 2
  Animated drawings show how various parts work.
- 6-55 THE BURNING QUESTION—IGNITION — 2
- 6-56 ONE FOR TWO; THE STARTER-GENERATOR — 1
  How the single unit machine functions for starter and generator.

### HEALTH

- 6-57 SUNSHINE, MAN'S NATURAL HERITAGE — 1
  Beauty of snow, icebergs, and children. The value of sunlight and its effect upon life.
- 6-58 PREVENTING BLINDNESS AND SAVING SIGHT — 2
  Delicate construction of the eye. Various types of diseases; their cause and prevention. Pleasures of good eye sight.

### BOY AND GIRL SCOUTS

- 7-7 THE GIRL SCOUT TRAIL — 2
  An excellent picture showing Girl Scout ideals and activities; an interesting story runs thru the picture. Ideal for a Scout entertainment.
- 7-8 MEN IN THE MAKING (BOY SCOUTS) — 2
  A group of Boy Scouts on an automobile trip from Akron, Ohio, to Washington, D. C. Places of historic interest are visited along the way; Mt. Vernon and Washington. Suitable for national holidays or Scout gatherings.
  (See 14-8, Class B, 16 mm.)

### WITH THE NAVY

- 7-9 SAILORS OF THE SKIES — 1
  Naval aviation.
- 7-10 EGYPTIAN ADVENTURE — 1
  The Navy in Egypt.
- 7-11 GREAT CAESAR’S GHOST — 1
  Animated cartoons; the Navy in Italy.

### Class B

#### 35 mm. Films

### HISTORY

THE CHRONICLES OF AMERICA

By special arrangement with Yale University Press, the rental on each subject has been reduced from $15.00 to $12.00, and on the entire series from $200.00 to $150.00. This applies to initial orders.

When a single play is booked during consecutive years, a rental of $10.00 per day will be charged. When the entire series is booked at the same time, following a year's previous

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use of the entire series, a charge of $120.00 will be made. The payment may be made over the period of a year. A teacher’s guide, historical outline, and list of titles are furnished with each picture.

For complete description of each picture, see Chronicles of America, pages 18 to 21.

<table>
<thead>
<tr>
<th>No. of Reels</th>
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<td>15-14</td>
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<tr>
<td>15-15</td>
<td>3</td>
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</tbody>
</table>

ENTERTAINMENT
Special Features

8—60 PIED PIPER OF HAMLIN
Based on the medieval legend of the Piper of Hamlin, who lured away the children as well as the rats.

8—62 WILLIAM TELL
The well-known story of the Swiss patriot. Shows Swiss village life.

8—63 CHRISTMAS CAROL

8—64 KIDS AND PETS
Hungry babies of all varieties.

Krazy Kat Comedies

8—66 K. O. KID

8—67 KRAZY KAT

8—68 FELIX GOES A-HUNTING

8—69 ALICE LOSES OUT

8—70 FABLE

HAWAIIAN PICTURES

8—24 HIGHLIGHTS OF HAWAII
Various scenes in Hawaii; PalI, weaving lanahala, surfing, Waimea Canyon, Army and Navy activities.

8—25 VOLCANO
Scenes of Kilauea during 1918 to the eruption of 1924.

8—26 HALEAKALA—MAUI’S HOUSE OF THE SUN
A trip to this once active volcano.

8—27 ROMANCE OF RAW SUGAR
Complete processes of Sugar Manufacture.

8—28 FISHES OF HAWAII
A collection of beautiful fishes.

8—29 FLOWERS OF HAWAII
Different stages in the opening and closing of the hibiscus.

8—30 FUNERAL OF PRINCE KALANIANAOLE
The elaborate funeral of the Prince; feather capes, kahilis, etc.

8—31 HAWAIIAN TRAIL AND MOUNTAIN CLUB; CLIMBING FOR COCONUTS; CAPT. LOWELL SMITH
The members have a hukilau; Captain Smith is decorated.

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List of Visual Aids

SCENICS

8—15 AUSTRALIAN SHEEP STATION ........ 1 1.00
Views of Australian sheep.

8—16 AMONG CALIFORNIA'S GIANT REDWOODS ............................................ 1 1.00
Redwoods in Yosemite Valley; views of the falls.

8—18 NIAGARA FALLS ........................................ 1 1.00
Horseshoe Falls, Cave of the Winds, the Gorge, and other beautiful scenes.

8—19 Glimpses of Florida: Wreck of the Mary Foster; of Diamond Head; with our fleet in Honolulu: Pearl Harbor's Dry-Dock ........................................ 1 1.00

RELIGIOUS

8—23 FAITHFUL FOR CENTURIES ............ 4
The Waldensian Churches in Italy; their historical backgrounds; views of the churches showing scenic spots; their religious, educational and social ideals. Available Jan. to April 1.

PART III

Class D

Film Strips or Still Films

These are not motion pictures.
(Each strip contains 25 to 50 views)
(See Class D, page 3 for directions for ordering this material)

AGRICULTURE

10—98 DAIRY CATTLE
10—99 FARM CONVENIENCES
10—100 PRODUCTIVITY OF HENS
10—101 VEGETABLE GARDEN

ARCHITECTURE

HISTORY IN ARCHITECTURE

10—180 EGYPTIAN
10—181 GREEK AND BYZANTINE
10—182 ROMAN
10—183 NEAPOLITAN
10—184 ITALIAN
10—185 FRENCH
10—186 PARISIAN
10—187 GERMAN
10—188 SPANISH
10—189 ENGLISH
10—190 ENGLISH HOMES
10—191 ENGLISH PALACES AND NOTABLE PUBLIC BUILDINGS

GEOGRAPHY

U. S. REGIONAL GEOGRAPHY "A" SET

10—1 NEW ENGLAND AS A WHOLE
10—2 ATLANTIC COASTAL PLAINS AS A WHOLE
10—3 APPALACHIAN HIGHLANDS AS A WHOLE
10—4 GULF COAST LOWLANDS AS A WHOLE
10—5 GREAT LAKES AS A WHOLE
10—6 CORN BELT AS A WHOLE
10—7 THE MISSISSIPPI VALLEY AS A WHOLE
10—8 THE GREAT PLAINS AS A WHOLE
10—9 ROCKY MOUNTAINS AS A WHOLE
10—10 DESERT REGIONS AS A WHOLE
10—11 PACIFIC NORTHWEST AS A WHOLE

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University of Hawaii

10—12 CALIFORNIA AS A WHOLE
10—13 ALASKA AS A WHOLE
10—14 HAWAIIAN ISLANDS AS A WHOLE
10—15 PANAMA CANAL ZONE AS A WHOLE

COMMERCIAL GEOGRAPHY
10—16 SILKWORMS AND SILK

CHICAGO'S WORLD'S FAIR
10—213 A TRIP THROUGH A CENTURY OF PROGRESS

PHYSICAL GEOGRAPHY
10—17 ELEMENTARY ASTRONOMY
10—18 EROSION
10—19 GEYSERS AND VOLCANOES
10—20 GLACIERS
10—21 NIAGARA FALLS
10—22 RIVERS
10—23 SHORE FORMATIONS

IMPORTANT CITIES
10—24 BOSTON
10—25 CHICAGO I
10—26 CHICAGO II
10—27 CLEVELAND
10—28 DAYTON
10—29 DETROIT
10—30 GALVESTON
10—31 LOS ANGELES
10—32 MILWAUKEE
10—33 MINNEAPOLIS
10—34 NEW YORK CITY
10—35 NEW YORK HARBOR
10—36 NEW ORLEANS
10—37 OKLAHOMA CITY
10—38 ST. PAUL
10—39 SAN FRANCISCO
10—40 SEATTLE
10—41 WASHINGTON, D. C.

REGIONAL GEOGRAPHY "B" SET
10—42 ALASKA I
10—43 ALASKA II
10—44 CENTRAL PLAINS
10—45 GREAT PLAINS
10—46 MIDDLE ATLANTIC STATES
10—47 NEW ENGLAND
10—48 NEW HAMPSHIRE MOUNTAINS
10—49 PACIFIC MOUNTAINS AND LOWLANDS
10—50 PUEBLO INDIANS
10—51 ROCKY MOUNTAINS
10—52 SOUTHERN STATES
10—53 WESTERN PLATEAUS

FOREIGN GEOGRAPHY
10—54 AUSTRALIA I
10—55 AUSTRALIA II
10—56 ENGLAND, HERE AND THERE
10—57 FRANCE
10—58 GERMANY, PICTURESQUE
10—59 HOLLAND
10—60 IRELAND
10—61 ITALY
10—62 JAVA, DUTCH EAST INDIES
10—63 MEXICO, THE OLD AND THE NEW
10—64 PARIS, FRANCE
10—65 SCOTLAND
10—66 SOUTH AMERICA
10—67 SOUTH SEA ISLANDS
10—68 SWEDEN
10—69 SWITZERLAND
10—70 AFRICA, UNION OF SOUTH
10—71 CZECHOSLOVAKIA-URBAN
10—72 SOUTH AMERICA—BRAZIL, URUGUAY
10—73 SPAIN—ITS PEOPLE AND PRODUCTS

HAWAII
10—A TRANSPORTATION IN HAWAII
10—B PINEAPPLE INDUSTRY IN HAWAII
10—C SUGAR IN HAWAII

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List of Visual Aids

10—D TRESSES IN HAWAII
10—E FRUITS IN HAWAII
10—F SCENES IN HAWAII

NEW ZEALAND
10—G SCENES IN NEW ZEALAND

SAMOA
10—H SCENES IN SAMOA

HEALTH
10—90 BACTERIA
10—91 DIPHTHERIA, CONQUERING
10—92 FLY PEST, THE
10—94 HEALTH CARTOONS
10—95 MILK IN YOUR LIFE
10—96 PHYSIOLOGY, ELEMENTARY
10—97 WASTE FROM CITIES, GETTING RID OF
10—171 CLEAN HANDS FOR HEALTH
10—172 ONE SCAR OR MANY (VACCINATION)
10—173 NO MORE DIPHTHERIA
10—174 LOUIS PASTEUR
10—175 HOW TO LIVE LONG
10—176 WORKING FOR DEAR LIFE (SAFETY ALWAYS)
10—177 CARE OF THE FEET

HISTORY
10—74 FRENCH EXPLORATIONS
10—75 EARLY SETTLERS
10—76 FIRST WESTWARD MOVEMENT
10—77 FRENCH AND INDIAN WAR
10—78 REVOLUTION, CAMPAIGNS OF THE
10—79 REVOLUTION, WAR OF THE
10—80 LOUISIANA PURCHASE
10—81 WEST OF THE MISSISSIPPI
10—82 PACIFIC COAST

CIVICS
10—83 CITIES, GROWTH OF
10—84 WHAT OUR GOVERNMENT DOES FOR US

MISCELLANEOUS
10—85 PRESIDENTS OF THE UNITED STATES
10—86 CRADLE OF LIBERTY (VAIL)
10—87 LINCOLN, ABRAHAM
10—88 WASHINGTON, GEORGE
10—89 ROOSEVELT, THEODORE

HOME ECONOMICS
10—180 THE ART AND SCIENCE OF LAUNDERING
10—181 COTTON—THE HOUSEHOLD FABRIC

NATURE STUDY
10—102 BEES
10—103 BIRD BEAUTIES, CENTRAL STATES
10—104 WILD ANIMALS
10—104A CRUISING AMONG THE BIRD ISLANDS
10—105 OF HAWAII

LITERATURE AND ART
10—105 BEETHOVEN, AND "THE MOONLIGHT SONATA"
10—106 BONHEUR, ROSA, ARTIST
10—107 BURNS, ROBERT, AND "COMIN' THRU THE RYE"
10—108 LANDSEER, ARTIST
10—109 PILGRIM'S PROGRESS
10—110 UNCLE TOM'S CABIN
10—111 THE ALHAMBRA
10—112 WATER BABIES (KINGSLEY)
ILLUSTRATED PRIMARY READING SERIES

10-114 THE NIGHT BEFORE CHRISTMAS
10-115 THE TIN SOLDIER
10-116 RUMPELSTILTKEN
10-117 SLEEPING BEAUTY
10-118 BROTHER AND SISTER
10-119 HOOTIE TOOTS OF HOLLOW TREE
10-120 THE FROG PRINCE
10-121 THE THREE BEARS
10-122 EAST OF THE SUN AND WEST OF THE MOON
10-123 FLAPS FLOPPER OF THE FARM YARD
10-124 THE ADVENTURES OF A BROWNIE
10-125 LITTLE BLACK SAMBO
10-126 PUSS IN BOOTS
10-127 TOM THUMB
10-128 INDIAN CHILD LIFE
10-129 PETER RABBIT'S EASTER
10-130 PETER RABBIT
10-131 ALICE IN WONDERLAND
10-132 LITTLE BLACK BEAR
10-133 LITTLE RED RIDING HOOD
10-134 WYNKEN, BLYNKEN, AND NOD
10-135 CANADA GOOSE
10-136 BEES AND BLOSSOMS
10-137 TYPICAL TREES OF MANY LANDS

ILLUSTRATED PRIMARY SONGS FROM MANY LANDS

10-191 ESKIMO SONG
10-192 JAPANESE SONG
10-193 BELLS OF HOLLAND
10-194 INDIAN SONG
10-195 SWISS LULLABY
10-196 BEDOUIN LUTE SONG

WEE FOLKS FROM MANY LANDS

10-197 ESKIMO
10-198 JAPANESE
10-199 DUTCH
10-200 NAVAJO INDIAN
10-201 SWISS
10-202 BEDOUIN

JUVENILE STORIES

10-203 CINDERELLA
10-204 THE LAD WHO WENT TO THE NORTH WIND
10-205 THE FLYING SHIP
10-206 DREKESTAIL
10-207 JACK AND THE BEANSTALK
10-208 BEAUTY AND THE BEAST
10-209 THE FOX AND THE LITTLE RED HEN
10-210 KING HAWKBEEK
10-211 RAPUNZEL
10-212 THE THREE PIGS

BOY SCOUT WORK

10-138 KNOTS AND THEIR USES
10-139 HIKING, TRAIL SIGNS, BACK PACKING AND ESTIMATION
10-140 FIRST STEPS IN FIRST AID
10-141 FIRE LIGHTING AND FIRE BUILDING
10-142 BACKWOODS COOKING
10-143 MISCELLANEOUS OUTDOOR ACTIVITIES
10-144 THE USE OF THE NECKERCHIEF FOR FIRST AID TO THE INJURED
10-145 LIFE SAVING AND RESUSCITATION
10-146 HOW TO HANDLE A CANOE
10-147 SIGNALING
10-148 SWIMMING AND DIVING
10-149 CARE AND USE OF KNIFE AND AXE

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Science and Electricity

10-150 Light and Vision
10-151 Oil Circuit Breakers
10-152 Arc Welding
10-153 Transformers
10-154 The General Electric Test
10-155 Turbine—Generator Sets
10-156 Principle and Design of Railway Motors
10-157 Heat
10-158 Mechanics
10-159 The General Electric Steam Turbine
10-150 A Few Facts About the General Electric Company
10-161 Development of the Electric Locomotive
10-162 Industrial Control Devices
10-163 Lighting and Its Relation to the Industries
10-164 A-C Generators and Synchronous Motors
10-165 Automatic Railway Substations
10-166 Electrical Equipment in Paper Mills
10-167 Electrical Equipment in Pulp and Paper Mills
10-170 Electrical Machinery in Textile Mills
10-170A Thomas Edison

Special Set in Physics

1. Air Pressure
2. Metric System
3. Work
4. Levers
5. Inclined Plane
6. Pulleys
7. Wheel and Axle
8. Friction
9. Power
10. Efficiency
11. Pressure in Liquids
12. Screws
13. Accelerated Motion
14. Energy
15. Strength of Materials
16. Non-Parallel Forces

Part IV

Class E

Stereographs

(See Class E, page 4 for directions for ordering this material)

(Order by Set and Number)

I. American Children at Play


II. Some Natural Features of the Earth

III. SEASONS

33. Early Spring or Late Winter—Tapping a Maple Tree.
36. Fall—Bursting Milkweed Pods and Thistles.
37. Fall—Making Hallowe'en Jack o' Lanterns in the Pumpkin Field.
38. Winter—Market Day in Quebec in a Snowstorm.
40. Summer—Children Gathering Daisies.
41. Summer—On a Children's City Playground.
42. Summer—A Large Picnic Party on a Motor-Boat Ride.
43. Summer—A Large Family Picnic Party in the Woods.
44. Summer—an Outdoor Swimming Pool.
45. Winter—Boys Playing Fort in the Snow.

IV. USEFUL PLANTS

56. Banana Tree, Hawaii.
57. Date Palms, Alexandria, Egypt. 58. Coconuts Gathered on a Coconut Farm, Island of Luzon, P. I.
61. Rubber Tree, Brazil.
63. Corn Husking by Hand on a New Jersey Farm. 64. Rice Field at Plowing Time, Japan.
65. Bamboo Plantation, Nanking, China.
66. Walnut Grove in Southern California. 67. Maple Sugar in Barrels Drawn by Oxen to the Station for Shipment.
68. Great Trees in the Oregon Forest.
69. Apple Orchard in the Annapolis Valley, Nova Scotia, Canada.

V. ANIMAL LIFE

(A) Wild and Captive Animals

70. Chipmunk or Striped Squirrel.
71. Polar Bear on Rocks, Bronx Park, New York City.
73. Beavers and Their Home, Bronx Park, New York City.
74. Reynard, the Fox.
75. Mountain Lion or Puma Captured in Colorado.
76. Royal Bengal Tiger in His Cage.
77. Caged Lions at Close Range.
78. Giant Hippopotamus at the Zoo.
79. Rhinoceros Captured by Natives.
80. Kangaroos in the Public Park, Australia.
81. Crocodiles, Palm Beach, Florida.
82. Downy Woodpecker and Chickadee.
83. Young Flickers in a Hollow Tree.
84. Ring-necked Pheasants Feeding in the Snow.
85. Red-winged Blackbirds.
86. Blue Jay.
87. Baby Robin's Mealtime in Box Elder Tree.
88. Quail's Nest.
89. Ostriches at Hatching Season on a Florida Ostrich Farm, Jacksonville, Fla.
90. Writing Sandpaper used by a New York Cubs Game. 91. Elephants Bathing in a Tropical Stream, Ceylon.
92. Reindeer Herd in Norway.
93. Snake Coiled around Its Eggs. (Pine or Bull Snake.)
94. American Elk.
95. Possum Hunting.
96. A Baby Monkey with Its Mother in the Tree Top.
97. Sea Gulls in San Francisco Bay.
98. A Veery's Eggs in the Nest.
99. Three Black Bears.
100. Song Sparrows in Their Nest.
102. Wild Animal Pets.
103. Cecropia Moth and Cocoons.
104. Yellow Swallowtail Butterfly.
105. Flamingos in Public Park, Australia.

(B) Domesticated Animals

108. Rabbits and Puppies on the Grass.
109. Chickens on a Ranch in California.
110. Turkeys in the Barnyard.
111. Pigeons in Front of St. Mark's, Venice, Italy.
112. Elephant Carrying a Block of Teak Wood in the Lumberyards, Rangoon, Burma.
113. Lambs and Sheep in a New England Farmyard.

116. Sheep

VI. FOOD—PREPARATION AND SERVING

VII. INDUSTRIES

VIII. TRANSPORTATION
196. Buffalo Team Carrying Produce of Mohammedan Farmer to Market, Rostochuk, Bulgaria. 197. Ox Teams on
University of Hawaii


IX. PICTURES WITH CIVIC INTEREST


X. HISTORIC


XI. INDIAN PICTURES


XII. HOMES AND HOME WORK


(33)
LIST OF VISUAL AIDS

II. BUILDING AND STRUCTURES
278. New York Skyscrapers Seen from Brooklyn Bridge.

IV. CHILDREN OF OTHER LANDS

LIST OF LANTERN SLIDES

The following slides are standard size, 3½ by 4 inches, glass slides for use in any ordinary stereopticon. Rental charges quoted on request.

PHYSICS

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NATURE STUDY

9. TREES AND FRUITS OF HAWAII | 15 |
Set includes banyan, hau, silk oak, golden shower, silversword, night-blooming cereus, lichee nuts, ohua, candlebush, ginger, mango flowers, mango fruit, guavas, young coconuts, banana blossoms.

SOCIAL SCIENCE

10. WORLD PRODUCTION MAPS | 6 |
Includes areas showing sugar, wheat, corn, coffee, cotton, rice.

11. MAPS OF THE ISLANDS | 5 |
Includes Oahu, Maui, Kauai, Hawaii Islands as a Whole.

EDUCATIONAL EXHIBITS AND CHARTS

(Schools using Visual Education Service under unit order plan may borrow this material without cost except for payment of transportation charges both ways. Others should apply for special rate on the use of this material.)

ALUMINUM
Steps in the making of a water sprinkler.

CHOCOLATE AND COCOA
Samples of cocoa beans, butter, nibs, cocoa.

COFFEE
Chart showing coffee from tree to cup.

GLASS
Ingredients used in making glass, samples of plate glass.

(34)
LINOLEUM
Samples of cork bark, jute, and linoleum.

MEATS
Charts showing cuts of beef, mutton and pork.

PAPER
Samples of wood pulp and wood chips.

PENCILS
Steps in the manufacture of pencils from crude graphite and cedar strip to pencil.

PENS
Fountain Pens.
Steps in the manufacture of the hard rubber parts.
Steel pens.
From sheet steel to the finished product.

PINS
Pin instruction chart showing material used in their manufacture.

ROPE
Samples of rope and fibres.

RUBBER
Crude rubber samples, charts showing manufacture of tires, boots.

SALT
Samples of salt on exhibit chart showing mine.

SOAP
A progressive chart on the history, manufacture, and use of soap.

SILK
Silk culture cabinet; eggs, cocoons, moth, raw silk.

TOWELS
Steps in manufacture.
Exhibit of different type of towels.
THE FILM PRAYER

I AM celluloid, not steel; O God of the machine, have mercy. I front four great dangers whenever I travel the whirling wheels of the mechanism.

Over the sprocket wheels, held tight by the idlers, I am forced by the motor's might. If a careless hand mistreads me, I have no alternative but to go to my death. If the springs at the aperture gate are too strong, all my splices pull apart. If the pull on the take-up reel is too violent, I am torn to shreds. If dirt collects in the aperture, my film of beauty is streaked and marred, and I must face my beholders—a thing ashamed and bespoiled.

Please, if I break, fasten me with clips; never with pins. Don't rewind me—my owner wants that privilege, so that he may examine me, heal my wounds, and send me rejuvenated upon a fresh mission.

I travel many miles in iron cans. I am tossed on heavy trucks, sideways and upside down. Please see that my own paper band is wrapped snugly around me on the reel and fastened with a string, so that my first few coils do not slip loose in my shipping case, to be bruised and wounded beyond the power to heal. Put me in my own shipping case. Don't make me a law-breaker.

Speed me on my way. Others are waiting to see me. The "next day" is the last day I should be held. Have a heart for the other fellow who is waiting, and for my owner who will get the blame. Don't humiliate me by sending me back without paying my passage and insuring me against loss or damage.

I am a delicate ribbon of celluloid—misuse me and I disappoint thousands; cherish me and I delight and instruct the world.

—A. P. HOLLIS