EDUCATIONAL TONE-O-GRAPH

PICTURES

VISUAL ORAL SYSTEM

NORTH AMERICAN SOUND AND TALKING PICTURE EQUIPMENT CORPORATION

729 SEVENTH AVENUE - NEW YORK, N. Y.

Telephone BRYant 6686-7
FOREWORD

We take pleasure in introducing to you, a listing of 52 Ufa Educational Talking Motion Pictures and their accompanying synopses.

These pictures have been arranged, edited and synchronized by recognized heads of public schools, chosen from various educational centers of the United States, also by representative university staff men and other educators of national and international reputation.

They have also been arranged to meet and coincide with the curriculum requirements of elementary and advanced school work and are also designed to serve as an indispensable aid to the teacher, being an actual concrete demonstration of subject matter not being released with any idea that they might, at any time, dispense with the personality of the teacher in the classroom.

Ufa Films, Inc., the producers of these pictures, have long been recognized by educators as crusaders in visual-education and their films have stood unchallenged as the most efficient and helpful aid in classroom demonstration.

The films listed herein are available on 35 M M film and printed on non-inflamable safety stock. They can be used on any 35 M M projector. We solicit your interest in our reproducing unit, especially designed for Colleges and Schools. It is a portable unit and was built with the same care and precision as our larger Tone-o-Graph units, now so popular in the theatrical field. These machines may be purchased on a helpful budget plan.

We know that this year you are turning your honest attention to the special requirements of your school. We know that you realize that a great step forward has been made with the introduction of the visual-oral system of education. We know that you have recognized the need it will fill for you.

We know that we are offering you the most complete and modern library of educational talking motion pictures as well as the most efficient reproducing unit now on the market.
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No. 1 DRIFTING DUNES

The Fight against Wind-blown Sand in the Courland

Sea, wind, sand—and man's fight for a living in a land where this trinity of elemental forces dominate.

Life in the little villages on the eastern shore of the Baltic—the fishing fleet—its catch.

The dunes, migrating before the force of the onshore wind—the day-by-day fight to save the villages and fields—the planting of beachgrass to slow the oncoming mounds.

Quicksand—the narrow escape of two of the villagers from its sure death.

Sunday—and the gathering of the entire village at the church for worship and social intercourse.

---

No. 3 THE MOTHERLY OAK

The Tree and the Animals it Shelters

A study which reveals the amazing variety of animals which may be found around the common oak.

The stag-beetle and its grub—the toad, and the remarkable trick whereby it escapes a snake—the squirrel—its enemy, the hawk—the lizard and its eggs—hornets, ants, and processional caterpillars—flies and butterflies—a crow's nest—the owl.

This picture will prove especially valuable for use by the teacher who is engaged in initiating his class in the fascinations of nature study.

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No. 7 THE FIGHT FOR LIFE

The Struggle for Survival under the Sea

Beneath the sea we find the fight for life proceeding at its most ferocious pace.

The panther shark falls victim to the giant lobster. The lobster in turn is stunned by the electric ray. The cuttle-fish escapes either by clouding the water, or by hiding in the sand, or by changing his color. The octopus engages the lobster in a battle from which only one participant emerges alive.

A "struggle for existence" and the survival of the fittest."
No. 8 JEWELS OF THE SEA
A Study of Coelenterata

The beauty of these underwater scenes will appeal even to those not immediately interested in this branch of the animal kingdom.

What seems to be a submarine garden, is disclosed as a group of living animals, sea-anemones. We see their leaf-like tentacles catching tiny fish. What seems to be a sea-anemone is shown to be a very peculiar marine worm. A queer object lodged in an aquatic plant moves down the floor of the sea, crosses gracefully before the camera, and reveals itself as a Rosy Feather Starfish.

In the last half of the picture there are shown numerous views of jellyfish, including colonial types, and some jellyfish-like Ctenophora.

No. 9 PARTNERSHIP UNDER THE SEA
A Study of Commensalism

Throughout Nature are numerous examples of animals which find cooperation a wise policy.

A homeless Hermit Crab assumes ownership of an empty shell. Dangerous attacks force it to seek additional protection. It searches for a sea-anemone and places it on its shell for camouflage.

The next episode is a contrast to this. A tiny crab kills a jellyfish in order to secure a home.

Lurking beneath the tentacles of a jellyfish we find a fish seeking protection.

Strangest of all is a tiny eel-like fish, shown gliding backwards into a sea-cucumber, from which it will emerge from time to time to search for food.

No. 10 THE SILVER SWIMMER
A Spider and its Underwater Nest

An air breathing spider which has learned a secret enabling her to live and raise a family under water!

A bell-like, air-tight nest is built underwater. The spider then projects her abdomen above the surface. A jerk, and she runs down with a bubble of air clinging to her. This she brushes into her nest.

When the nest is completely filled with air, she greets her mate—in true spider fashion!

Soon the eggs hatch, but the mother is as ferocious with her young as she has been with her mate.
No. 13 The Development of Astronomical Knowledge

The Chaldeans, studying the heavens from the top of one of their temple-towers, are seen first; then the earth known to the Greeks, a disc surrounded by the ocean. The data whereby man first suspected the roundness of the earth is pictured. Diagrams explain the Ptolemaic theory of Epicycles. Scenes from the lives of Copernicus, Kepler, the discoverer of the telescope and of Galileo are shown—while the discoveries of each are covered in detail.

No. 14 Gravitation—The Moon—Constellations

Newton is pictured working on his Law of Gravitation. Numerous diagrams explain his theory and its application to the problem of the orbits of the planets.

Pictures of an incoming tide and diagrams disclosing the part played by the moon give a concrete example of the attraction of gravity.

A series of scenes explain the recurring phases of the moon.

On a star-map of the heavens the constellations of the Big and Little Dipper, Cassiopeia, Andromeda, Lyra, Cygnus, Perseus and Auriga are successively outlined.

No. 15 The Sun—Its Influence on the Earth

A thorough study of the sun is presented in a series of unusual episodes.

The nature of the sun is first investigated. Its spots and their effects, the causes of an eclipse, the corona seen at that time, solar prominences—all these are shown.

As if from off in space we see through the eye of the camera the influences of the sun on the globe. In a series of scenes we study the reasons for day and night, the differences in local times, the zones and the seasons.

No. 16 Mercury—Venus—Mars

The machine of which many men have dreamed, leaves the earth for a trip through space.

The travelers witness sunrise and sunset on the moon with the earth in the distance. They explore the scorched and frozen sides of Mercury, then circle near cloud-covered Venus.

As the machine nears Mars one of the polar caps melts and the "canals" become increasingly distinct. The machine lands and as the travelers climb out they discover the lessened force of gravity on Mars.
No. 17 Jupiter—Saturn—The Milky Way

As the machine proceeds Jupiter and its four principal satellites become visible. The increased force of gravity on this giant planet is made strikingly apparent.

The rings of Saturn provide a magnificent spectacle. From one of Saturn's satellites the travelers witness six of the other moons circling about.

The machine proceeds past many stars, through a gaseous nebula, near an eclipsing binary, through a globular cluster, beyond the Milky Way.

No. 18 The Evolution of the Universe

The origin of the planets is pictured in terms of the nebular hypothesis. As we watch one a crust gradually hardens; the volcanoes which disclose the still heated interior of our globe are pictured.

How wind and water have modified the face of the earth is demonstrated.

Possible fates which may await the spinning earth in the dim future are dramatically portrayed.

No. 20 A JUNGLE ROUND-UP

Animals of the Amazon Valley

Brazilian cowboys, on the hunt for crocodiles, discover the nest of one of these reptiles. The hunters achieve their aim—over two thousand crocodiles are killed for their hides.

A boa constrictor, discovered coiled in the roots of a tree, is captured with unbelievable skill.

High in the tree tops a sloth is noticed, and captured by one of the party who climbs the tree native fashion.

No. 21 INSECT FARMERS and LABORERS

The Strange Ways of the Ant

Obstacles across their paths afford an opportunity for the observation of the ingenuity of the ant as they struggle homeward with their heavy loads.

A huge caterpillar is the victim of the grim attack of the ants; but the snail defends itself successfully by exuding a disagreeable froth.

From South America come these next scenes of the Parasol Ant—first cutting, then bearing "parasols" of leaves to the nest, where they are chewed up into "fertilizer" for the beds of minute fungi on which this species feeds.
No. 22 TRAPS FOR INSECTS

Insect-eating Plants and Animals

A Praying Mantis catching and eating a grasshopper—how this insect lays its eggs. How the Pitcher Plant traps ants and other insects—flies entangled in the Sun Dew—the Venus Fly Traps capturing a fly. The Chameleon at work with its limber tongue.

No. 23 TROPICAL BIRDS

Bird-life in the Amazon Valley

On the pampas, the Brazilians are busy with their huge herds of cattle and horses. When any of these fall by the wayside great numbers of carrion birds immediately gather. Brazilian lakes are a paradise for wading birds. Brazilian forests are equally crowded with the birds which feed on insects, such as Hornets, the Hairy Spider and the Bird Spider which are shown. The camera records the building of the nest of the Humming Birds, and the feeding of the young.

No. 26 SUBMARINE CAMOUFLAGE

An Undersea Study of the Crab

The side-wise walk of the crab as it searches for food—how it cracks a clam and feeds thereon—cleaning its claws. A crab camouflaging itself with a cloak of sea-weed—its battles with other crabs—mating—the eggs. Scenes of the crab-fisher and of the market place where the crab comes to a sad end.

No. 29 SECRETS OF THE SEA

Jellyfish and Sea-slugs through the Microscope

Scientist-fishermen fill their collecting jars with specimens from near the surface of the ocean. Back in the laboratory the microscope discloses two species of jellyfish; a marine worm, Sagitta; and two slugs, Tomopteris and Aeolis. There is a beauty to the scenes which charms even those to whom these forms of life are mysteries.
No. 31 BELLA NAPOLI
Naples, Vesuvius and Capri

The public buildings, street scenes, markets—the daily life of the Neapolitans. Capri, and its Blue Grotto, Pozzuoli, and the famous Fumarole, or volcanic vents. The excavated streets of Pompeii; views of Vesuvius and its crater—scenes of the vineyards which grow on the lava deposits.

No. 32 HOW EYES TELL LIES
Optical Illusions and the Kaleidoscope

Designs more intricate and more beautiful than man ever dreamed of are created when common objects such as the handle of a pair of scissors, a little bunch of excelsior or bubbling water are viewed through the kaleidoscope.

Which of the three men is tallest? Are the lines parallel? Is this a circle? All the old familiar optical illusions and several new ones are presented as only the moving picture camera can show them—as animated diagrams in which the distortions occur before our over-confident eyes.

No. 35 BIRDS ON THE WING
A Slow-motion Study of Bird-flight

Near the ruins of an old castle a flock of pigeons alight, then take to their wings while the camera records their movements both at normal speed and with slow-motion.

The use of wings in maintaining a difficult perch, the flying and soaring of sea-gulls, a cock-flight, the migration of huge flocks, the forays of the owl, the majestic flight of the condor, the chase and capture of a pigeon by the hawk—these diverse types of wing-action are studied in the same fashion.
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For rooms or auditoriums seating 400 or less equipped
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Installation
You have to do the necessary wiring in the booth and from the booth to the stage speakers. Your local electrician can make the installation from plans submitted by us.

Type E-2
For rooms or auditoriums seating between
projector (Simplex) . . . (Powers)
Where there are two projectors then

Type E-3
For rooms or auditoriums
(Simplex) . . . (Powers)
Where there are two projectors then

Type E—Portable Projector and Attachment
Portable projector and disc reproducing device completely installed in any room or auditorium seating up to 400 including amplification and speaker.

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Disc reproducing device that can be attached
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for rooms seating up to 400

D. B. Long Island City

PICTURE EQUIPMENT CORPORATION
NEW YORK, N. Y.
No. 51 ROUMANIA

Lumbering and Farming in the Balkans

The forests of the Carpathian Mountains—felling the trees—oxen dragging the timber—"driving" the logs down the rivers—the saw-mill.

Coopers, and mountains of barrels and packing cases—the flocks of poultry and the dairy herds which supply the products going into these barrels and cases.

Agriculture as our forefathers practiced it—reaping and threshing—transporting the grain.

The vineyards—and the harvest festivals.

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No. 55 FOUR-FOOTED COLUMBUS

The Life Cycle of the Frog

In this picture there is completely recorded each episode in the story of the frog. We begin with the eggs developing before our eyes; we end with the frog busily croaking away preparatory to beginning the cycle over again.

The camera, with the aid of the microscope, discloses the process of development and the habits of the adult frog in a way which cannot be duplicated in the class room by any other means.

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No. 63 AN AFRICAN ADVENTURE

A Visit to a Native Village

An expedition to the vicinity of Kilimanjaro, the highest peak in Africa—the start from the coast by train—the landscape and the animals visible from the windows.

Arrival at a native village—engaging native carriers—the start of the second lap of the journey.

Coming upon a starving village, the guns of the white man save the inhabitants.

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No. 71 THE PALACE OF HONEY

The Life of the Bee

Close-up views and animated diagrams show the manner in which the bee gathers nectar, converts it into honey and stores it in the comb.

The exciting story of the swarming is pictured in great detail.

As soon as the swarm is established in their new home the metamorphosis of the bee from egg to adult is portrayed.

Insect enemies of the bee attack the hive and a strenuous battle results.

In conclusion man's removal, preparation and use of the honey is shown.
No. 73 THE SNAIL

Its Life Cycle and Habits

This picture is a triumph in the art of motion-picture photography. One hesitates to use superlatives—but in this case the only adequate words are—“amazingly beautiful.” From the strictly educational point of view this picture is just as remarkable. The habits and life cycle of the snail are covered in very great detail. Manner of locomotion, feeding, mating, egg-laying, the development from egg to adult, preparation for winter—these are the topics covered.

No. 74 NATURE’S WIZARDY

Man’s Imitations of Nature’s Inventions

The floating thistledown seed—parachute jumpers; soaring birds—gliders; the folding web feet of aquatic birds—“featuring” oars in a crew race; the violinist—the cricket. The radula of the snail—a housewife’s grater; man’s imitation of the suction pads on the feet of various animals; the smoke-bomb—the cuttlefish; the mouse trap—the Venus Fly Trap. Fly paper—the Sun-dew plant; cowboys lassoing—the chameleon’s tongue, rope making—and the spider’s weaving of her web.

No. 75 SLEEPING DEATH

The Story of African Sleeping Sickness

The traveler in Africa finds beautiful water-falls, rivers, lakes, mountains—AND dangerous animals—the rhinoceros, snakes, the lion, poisonous spiders. Just as dangerous as these is the tiny Tsetse-fly, bearer of sleeping sickness.

As this insect sucks the blood of its victims a tiny protozoan, Trypanosome, is transmitted. The effect of these organisms on human blood is studied through the microscope.

No. 76 GOLDEN FLEECES

Sheep-raising in the Black Forest

Famous for their beauty, even in beautiful Germany, are the hills and valleys of the Black Forest. In a series of views of this region that will give all adults, at least, violent day-dreams of possible vacation jaunts, the flocks of sheep are shown descending to the valleys after a summer in the hills. Here they pass the winter in the snow-covered pastures. With the first days of spring comes the shearing—and the festivals with which its completion is celebrated.
No. 77 BIRDS OF THE BEACH

The Flying Inhabitants of the Shore

The nesting habits, rearing of young, feeding habits, manner of flight, and special adaptations of shore birds are illustrated in a number of studies.

The birds pictured include the gull, oystercatcher, shearwater, snipe, loon and other birds of the sand-beach.

No. 79 BULGARIA

The Country and its Customs

One of the strangest crops in the world—rose petals—is grown in the beautiful Valley of Roses near Karlova, Bulgaria. The petals, picked from acres of bushes, are sent to distilleries. Here the costly perfume, attar of roses, is extracted by prosaic machinery.

The fields of tobacco are less picturesque. But the process of preparing the leaves for the market, carried on by hand in each home in the village, has the charm of a pre-machine handicraft.

After the harvest the peasants hold a festival, the Bulgarian counterpart to a county fair.

No. 79A Its Industries

No. 81 SONS OF THE SUN-GODS

Peru and the Incas

After struggling up jungle trails, fording rushing streams, climbing higher and higher towards the snow-covered peaks, Cuzco, ancient capital of the Incas, is finally reached.

Here among the massive walls of their ancient palaces, among the churches built by their Spanish conquerors live the poverty-stricken descendants. The terrace-farms and the laden llamas are as they have always been—but the glory of the Incas is buried with the mummies in the ancient graves which we see excavated.
No. 84 A PERSIAN WEDDING

The Marriage Ceremony in a Mohammedan Land

The building of the home—the clay-bank and brick kiln.
The marriage contract—the ceremony—preparation of the wedding feast—arrival of the guests—the eating of the meal—prayers.

The lot of woman in a Mohammedan land—spinning—weaving—the care of the family.

No. 87 SACRED BABOONS

Capturing Animals in Abyssinia

An expedition winds its way through the rocky, sun-baked hills of Abyssinia. Past chattering monkeys, it proceeds until the territory of the baboons is reached.

Presently a group is spied, clambering up and down a sheer wall of rock. Along paths which these baboons frequent, traps are built. Many are caught alive.

As the expedition proceeds, ostriches, panthers, monkeys—animals enough for an Ark—are added to the captives already secured. Their antics, as they are gradually tamed, provide a home-made circus.

No. 88 TINY HOUSEKEEPERS

The Story of the Hamster

Spring—and the end of a winter's hibernation. Courtship—a fierce fight with a rival—a nestful of youngsters.

Foraging for food for the young—their gradual growth—the first peep of the outer world—timid explorations—shifting for themselves.

Preparations for winter—building a new home—stocking it with grain—the pilfering of an intruding mouse—the Hamster's punishment of the robber—settling down for the winter's hibernation.

No. 89 KILLING THE KILLER

The Cobra and the Mongoose

The snake charmers of India and their dancing cobras—the expanded hood of this deadly snake—capturing a rat.
The mongoose, deadly enemy of the cobra—capture of a rat—raiding a bird's nest for the eggs.

As it descends the mongoose spies the cobra—the two prepare for battle.
The fierce lunges of the snake, hood spread, at the dodging, threatening mongoose—gradual tiring of the snake—the sudden snap of the mongoose at his enemy's neck—the fierce thrashing of the coiling snake—the victory of the mongoose.
No. 90 THE SACRED SCARAB

The Habits of the Beetle of the Egyptian Hieroglyphics

Views of the pyramids and rock tombs of Egypt—the process of excavation in an ancient tomb—views of its interior—the hieroglyphics inscribed on the walls—inscriptions of the Sacred Beetle.

A caravan of camels—beetles forming a ball of dung—starting to roll it away—stopping to polish the ball—the attack of another beetle—the fight, with the victor rolling the ball away.

Digging a hole in the sand beneath the ball until the ball sinks in—laying the eggs.

No. 101 CORSICA, NAPOLEON'S HOMELAND

An Island in the Sunny Mediterranean

From Nice the steamer carries us to Ajaccio, capital of Corsica and Napoleon's birth-place. The streets, buildings, monuments and the daily life of the Corsicans are an interesting study.

To find the real Corsicans we go to the mountains. Along mountain roads and bridges, some dating from Roman days, we find them—riding their donkeys, shepherding their flocks, cultivating the vineyards, busy with apiaries, carting loads of timber, operating charcoal ovens.

Finally we return to the seacoast to watch the fishermen, who drop their usual work long enough to show us the octopi, lobsters and jellyfish of the Mediterranean.

No. 104 A GOLD RUSH

Training and Educating the Natives

The streets, markets, buildings of Johannesburg—the buildings and machinery of the nearby gold mines.

Natives at work in the mines—their life in the barbed wire-enclosed "compounds"—washing clothes by jumping on them, using the sewing machine, adapting empty oil cans to a dozen new uses, shopping in the bazaars of Trairobi.

The gradual education of the native through his work for the white man and in the newly-founded schools—a hint of what this may mean to the white man's domination of Africa.

No. 106 AMAZING ANIMAL HABITS

The Strange Powers of Instinct

A fish (the Stickleback) building a nest—the protective coat of twigs, shells, etc. collected by the aquatic larva of the Caddis fly.

The Ant Lion, and his deadly pit-trap for insects—a spider constructing a web, catching and binding a wasp.

The toad puffing up to bluff a snake and succeeding—the protective adaptations of the Walking Stick and leaf-like insects.

Ants caring for and "milking" aphids—various insects gathered at a crack in the bark of the oak enjoying the sap.
No. 107 THE DISAPPEARING JUNGLE
The White Man's Transformation of Africa

In impressive contrast there is presented, first the Africa of the early explorers and second the Africa of today. As a result many well established illusions are destroyed.

The Jungle—thick-growing trees and vines—snakes, wild animals—hidden lakes, hills—native villages, tribal dances—the Africa which is far nearer a thing of the past than is realized.

Natives clearing the land—irrigation—plantations and mills—the Africa the White Man is rapidly creating.

The animals? The camera discovers a great number—and then discloses that they are all in a game preserve!

No. 109 POISONED DAGGERS
The Mosquito

Deserted picnic grounds and deserted malaria-infected towns testify to the annoyance and danger of the mosquito.

Microscopic studies and animated diagrams explain the life cycle of the malarial organism.

The egg, development of the larva, pupation, and the emergence of the adult are pictured in detail.

Man's measures for the control of this pest and his allies in the fight are shown in conclusion.

No. 119 AN ANCIENT ART
Modeling in Wax

Michelangelo's exquisite group of figures in wax is an excellent example of some of the fine work done in the Renaissance by many of the early masters.

The camera follows from start to finish the technique of a modern sculpture engaged in modeling a bust of himself. Each step in the process is carefully followed as we watch the likeness grow.
No. 122 WHEN THE LIONS THREATEN
Protecting an African Village from Lions

Parts of Africa lend themselves excellently to motoring. Everything is perfection as we speed over the level grassland—until we reach a patch of loose sand!

But most of Africa requires a different vehicle. For this part of our travels we choose donkeys—and pay the usual price.

At last we reach camp; but the morning brings fresh trouble. Lions have killed some of our donkeys during the night.

A long trek along the trail till the dogs corner the lion. A shot—and we have time to care for the bleeding dogs, as well as to adopt a lion cub.

No. 128 BROWN GOLD
The Caviar Fisheries of the Black Sea

In a little Bessarabian fishing village, resembling Venice with its many waterways, we study the preparation of caviar.

On shore the women mend the nets while the men bait long lines of hooks. At sea the men catch the sturgeon.

From the female fish enormous quantities of roe are removed, cleansed, salted and packed into tins.

No. 129 JAPAN
Glimpses of the Country of Arts and Crafts

Few bells equal the forty-eight ton giant hanging in the temple at Nara. In preparation for its booming all the women prepare elaborate coiffures.

The beautiful embroideries, which we glimpse as the worshippers gather, are the product of the men employed in such a workshop as is shown.

The same careful, beautiful craftsmanship is bestowed upon the preparation of lacquered objects.

The culture of artificial pearls in live oysters is an even more interestingly portrayed process.
No. 131 THE STORK
The Rearing of a Stork Family

When food is scarce the stork abandons his favorite haunts on the roof-tops and builds his nest in a tree. To it the pair returns each year.

A thorough overhauling, a relining with moss—and all is ready for the family which soon arrives. Then begins the seemingly endless feeding process.

Eventually the young storks grow strong enough to try out their wings. Higher and higher they leap above the nest as they experiment with their wings. Soon they are found off in the meadows, gathered in the flock which will soon start for the South.

No. 133 CASTLES OF PAPER
Paper-making Hornets

The nest of the hornet—the insect's sting—building new cells—masticating the wood—adding it to the walls.

The division of labor—gathering food—feeding the larvae—covering the cells—guarding the entrance—repelling other insects who attempt to invade.

No. 134 KINGS OF THE AIR
The Nest of the Eagle

High on the barren top of a high tree is the nest of the Serpent Eagle. While both birds are away a hunter climbs the tree in order to hold up the eggs for our examination.

Soon the little eagle fights his way out of the shell. In a few months he presents a new picture—for now he is well grown and able to catch his own food.

The Imperial Eagle is an even more splendid bird. In its nest we witness some unforgettable scenes—the cruel domination of the first-born and strongest as he lords it over the other eaglets.

No. 137 A WORLD UNSEEN
Tiny Organisms Under the Microscope

This forest, as soon as the worm and the beetle enter the scene and give perspective, turns into a clump of tiny plants.

When drought sets in this microscopic vegetation withers; but a shower revives it.

The tiny Arctiscon follows the same process. In a pond the size of a thimble we discover many tiny Infusoria. Finally the microscope discloses the secrets of the Rotifer, even to the teeth in his stomach.

No. 138 THE BREATH OF LIFE
Respiration

Sufficient quantities of oxygen are only obtained when the lungs are properly inflated as illustrated. Blood corpuscles flowing through the capillaries show how this essential gas is carried to all cells of the body.

A series of pictures explain how various water-dwelling animals secure oxygen.

A study of the plant reveals the part it plays in maintaining the supply of oxygen in the air. Especially interesting are the views through the microscope showing bubbles of gas escaping from the stomates of the leaf.
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