



FUN AND ACTION

FOR AMERICA'S BOY ENGINEERS...CHEMISTS...SCIENTISTS

OFFICIAL HANDBOOK OF LATEST TOYS DEVELOPED AT THE GILBERT HALL OF SCIENCE
THE A. C. GILBERT COMPANY — New Haven, Conn., U. S. A.

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Boys! Meet Mr. A. C. Gilbert

Meet the man every red-blooded boy likes to know. He was once one of Yale's great athletes . . . he was an Olympic World's Champion . . . he has hunted the fierce Kodiak bears in Alaska . . . he has raised champion German shepherd dogs . . . he has risked his life taking movies of wild animals . . . but most important of all, he is the Inventor of Erector and the Founder of the famous Gilbert Hall of Science. Following is his personal message to you.



Hello Boys! Great Adventures Are Ahead of You

This is the book you asked me to send you. It is written for boys who want action and lots of it—who want to trod new paths of adventure—who want to discover new frontiers to conquer.

To our forefathers, adventure meant blazing a trail through the wilderness, fighting off Indians and wild animals, and conquering the forces of nature.

Today the world's most thrilling adventures lie in the field of science—engineering, chemistry, electricity, microscopy and other forms of scientific activity. There is as much romance in discovering the secrets of strange chemicals as the secrets of strange lands. There is as much exciting fun in building a giant engineering marvel as in exploring a giant mountain. There is as much glory in conquering the wild forces of electricity as in conquering wild tribes.

The Gilbert Hall of Science—where all the products shown in this book are developed and made—was founded so that *you* can play a leading part in the spectacular drama of modern science.

As you read this book, you'll probably feel you want every type of set you see. But of course you can't ask Dad for too much at once. So here's what I suggest. Tell him which sets you want most this Christmas. Then save this book, ask for another set for your birthday, more sets next Christmas and so forth.

\$200.00 Annual Awards

To the boy doing what, in my opinion, is the most important research in Chemistry, Microscopy or Electricity, I will award \$100.00 in cash. To the ten boys doing the next most important research, I will award \$10.00 each. Applicants must not be over 17 years old and must send me full description of their experiments by May 1st, 1942.

Founder of the Gilbert Hall of Science

Owing to emergency conditions beyond our control
The A. C. Gilbert Co. reserves the right to change
prices, contents or materials used without notice.

TOYS FOR TODAY'S FUN AND TOMORROW'S CAREER

Gilbert toys are different from ordinary toys. They are more fun . . . because every day you can do something new, interesting and exciting with them. They are more real . . . because they are designed to enable you to do modern, big time scientific things in a scientific way.

Thus when you build mighty mechanical marvels with the new all-electric Erector, you get an insight into how the wheels go round in Uncle Sam's big national defense plants. When you perform startling experiments with a Gilbert Chemistry set or peer at the mysterious colors a Gilbert Polarizing Microscope reveals, you are joining the ranks of America's brilliant chemists and scientists of the future. Hours of thrilling fun, big adventures and stirring sights are ahead of you when you start your career with products developed at the Gilbert Hall of Science. To avoid disappointment, tell Dad to be sure to look for the words on the box, "Developed at the Gilbert Hall of Science."



ERECTOR — The World's Greatest Toy

The Construction Set That Builds Actual Operating Models of Spectacular Marvels of the Machine Age

Boys! Let's take an imaginary automobile trip across the United States. Certainly some of the most impressive sights that would greet your eyes are the mighty mechanical monsters and engineering feats that are such a vital part of the world of today.

Somewhere on your trip you would probably see a gigantic drawbridge opening and closing to let ships pass . . . elsewhere you would find towering cranes swinging around in big arcs, lifting tons of material as they load ships, railroad cars or motor trucks.

If you visited an amusement park, you would want to take a ride on the big Ferris wheel . . . perhaps you would want to take another ride at night when it is brilliantly illuminated. If one of your destinations was the New York World's Fair, the famous parachute drop would bring you the thrill of a lifetime . . . and nearby you would notice the tall, slender airplane beacons that guide the mammoth sky liners to a safe landing.

In the large cities you would find skyscrapers in process of construction . . . you would ride modern high speed elevators . . . you would see bridges and more bridges, of all types . . . you might even visit an electric power plant where colossal

fly wheels whirl at tremendous speed.

Thrilling—yes—but equally thrilling is the fun you get out of building Erector models of these great machine wonders. Think of this! You can build realistic, operating models of all the sights mentioned in our imaginary automobile trip with *one* Erector set. Piece by piece—with your own hands—you put gleaming girders, gears and other parts together. And how they buzz with action when you hook up the powerful Erector reversing electric engine!

Nor is that all. Several Erector sets now contain electric lights, so that your models look more realistic.

It is worth knowing that many famous engineers had Erector sets when they were boys. Their first models were made with Erector. Since then Erector has been improved and modernized in dozens of ways.

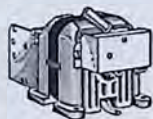
Erector sets this year are the finest ever produced by the Gilbert Hall of Science. They have new features—they make more realistic models. They're tops in construction toys.

FLASH — Erector now builds Parachute Jump

The parachute jump was one of the greatest features of the New York World's Fair — and you can build an actual operating model with the new No. 9½ Erector.

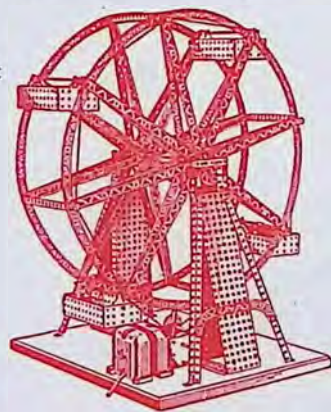
FLASH — NEW ERECTOR WHISTLE

It's Erector's most thrilling new feature — just perfected by the Gilbert Hall of Science. Think of all the models where this whistle adds more fun. Blow it when drawbridges open and close — when Ferris wheel stops and starts — when you operate hoisting cranes — and of course every engine model needs a whistle. Whistle comes with Erector sets No. 8½, 9½ and 10½.



FERRIS WHEEL

Built with No. 8½ Set



Built with No. 9½ Set

Getting an Erector Set Is Like Getting Dozens of Gifts in One Box

Get a load of the exciting engineering models shown on this page. You can build them *all*—and many more with *one* Erector Set. No other Christmas present is so crammed with fun.



No. 1 1/2 ERECTOR

Dandy Beginner's Set—World's greatest dollar's worth in model-building fun. Enough parts to make see-saw, windmill, battleship and many other models.

Price, \$1.00



No. 3 1/2 ERECTOR

Intermediate Set—New big base plates, angle girders and other parts give you the thrill of building walking beam engine, lift-bridge, snow remover and other mechanical marvels.

Price, \$3.75



No. 2 1/2 ERECTOR

Apprentice Set—Four big red wheels, curved and long girders and other parts enable you to make portable derrick, trucks, Ferris wheel, inclined railroad, etc.

Price, \$2.75



FAMOUS No. 4 1/2 ERECTOR

Powerful, mechanical motor drives motor trucks, windmill, horizontal engine, and other realistic, action models. Needs no wires or batteries. Contains new engineer's shack and over 6 pounds of parts.

Price, \$5.00

Motors to Make Models Buzz with Action



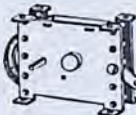
No. P58—Gleaming nickel-finished battery motor. Makes trucks and other models run just like real.

Price, \$1.00



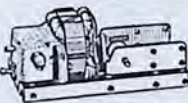
No. P56G—Powerful, speedy 110 volt A.C. or D.C. motor in black enamel housing. Complete with cord and plug cap.

Price, \$2.95



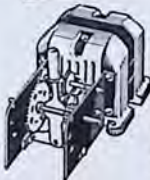
No. A48—New blue-streak mechanical motor. Needs no wires or batteries. Ideal for truck models. Standard equipment with No. 4 1/2 Set.

Price, \$1.00



No. P51—Gilbert Reversing Electric Engine. Not just a motor but a rugged power plant complete with gear box. 110 volts A.C. or D.C., 60 cycles or less. Nickel and red finish.

Price, \$3.95



No. A49—New Gilbert 4-speed Electric Engine with automobile-type gear shift. The latest word in power plant and automatic control for Erector models. 110 volts A.C., 60 cycles only. No radio interference.

Price, \$3.95

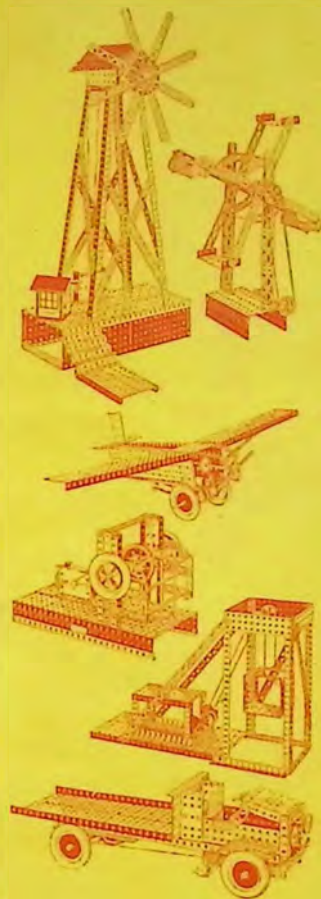


No. A49C—Gilbert 4-speed Electric Engine with Whistle.

Price, \$4.50

No. 6 TRANSFORMER—75 watt transformer, recommended for operating locomotive—also adaptable for use with No. P58 Battery Motor.

Price, \$3.50

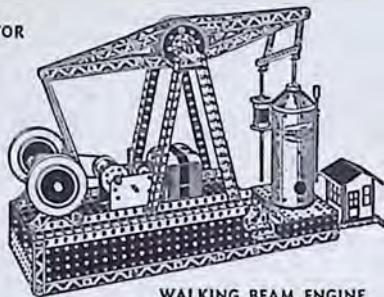


They're Colossal, Boys! These New All-Electric Erectors

Owning a new All-Electric Erector is like going to a double feature movie. You get double feature fun—*building* gigantic engineering marvels—*running* them the new all-electric way.

You can build hundreds of models,
of every description and kind.

HOISTING ENGINE
BUILT WITH No. 7½ ERECTOR



WALKING BEAM ENGINE
BUILT WITH No. 7½ ERECTOR

No. 7½ ERECTOR

The Engineer's Set—Builds the Walking Beam Engine

Look at all you get in this set. Polished boiler shell—electric engine with gear shift that operates two movements, each of which can be independently stopped, started or reversed—engineer's shack—large wheels—base plates and many pounds of other parts. Everything you need for building a walking beam engine—realistic hoisting engine—and many other engines. Also, builds derricks, bridges, motor trucks and numerous other gleaming, electrically operated models.

Price, \$10.50



No. 8½ ERECTOR

The All-Electric Set—Builds the Bascule Bridge and Ferris Wheel
Crammed with exciting electric features. Whistle. 110 Volt reversing electric engine, with automobile-type gear shift. Electric lights. Electro-magnet so powerful it grabs up steel girders before it touches them. Contains total of 15 pounds of up-to-the-minute parts for building bascule bridge, giant Ferris wheel, magnetic crane, oil drilling rig and over 100 other colossal whistling, engine driven, electrically lighted engineering marvels.

Price, \$13.50



SENSATIONAL No. 6½ ERECTOR

You'll feel like a real engineer when you build your models with this set. Weighs 10 lbs. In it are a 110 volt induction motored electric engine, engineer's shack and plenty of girders, gears, pinions and other parts for building revolving aeroplane beacon, electrically driven lift bridge, windmill pump and other sensational models.

Price, \$8.50



Reversing Electric Engine — Electric Lights — Electro Magnet

With the new All-Electric Erectors, you can make models no boy has ever seen before. You can build a revolving airplane beacon with a real electric searchlight—construct electrically lighted railroad trains, ferris wheel, airplanes, motor cars—erect electric bridges that open and close and have a lighted engineer's shack—make mighty cranes that grab up steel girders by electro-magnetic power.

There are more blood-tingling thrills in the new All-Electric Erector than in a dozen ordinary toys. See them today at the nearest toy stores. Take Dad along.

P.S. Remember, that every Erector Set makes all the models that any smaller set makes. For example, the No. 8½ makes all the models that can be made with the sets from No. 1½ to No. 7½, plus many more.



No. 9½ ERECTOR

The Automotive Set—Builds Parachute Jump, Giant Power Plant, Automobiles

Weighing 25 pounds, this set contains all structural parts, parachutes and 110 volt electric engine for building realistic working model of parachute jump. Electric engine has gear shift for forward, reverse and stop. Lots of automotive parts for motor car models. Builds giant power plant with mammoth fly wheel. Has whistle, lights and all electric features. **Price, \$19.95**

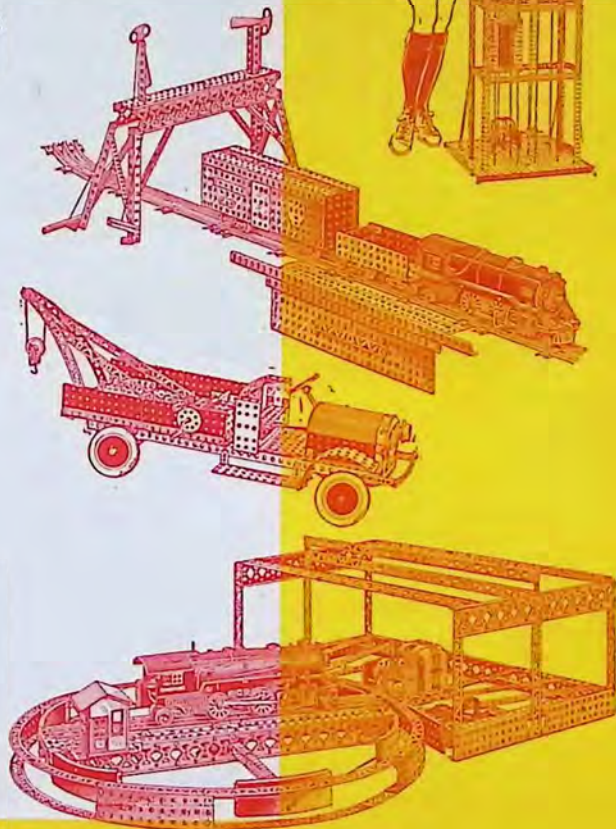


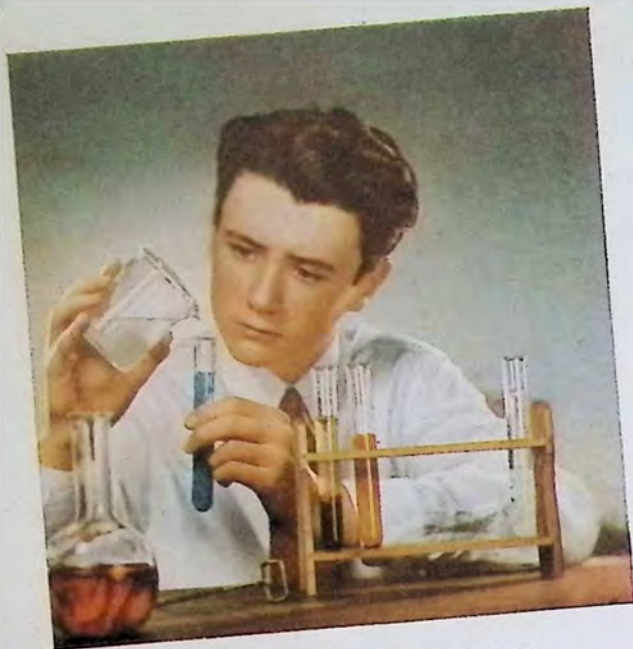
No. 10½ ERECTOR

World's Champion Electric Train Set

The Erector that has everything! Contains completely assembled electric locomotive and circle of track. Two power plants: reversing 110 volt electric engine and mechanical motor, also transformer. Has parachute jump parts, whistle, electric lights, electro-magnet. There is almost no limit to the number of realistic, power-driven models this 40 pound set builds.

Price, \$35.00





Courtesy of Monsanto Chemical Co., St. Louis, Mo.

OPENING A GILBERT CHEMISTRY SET IS LIKE OPENING THE DOOR TO HUNDREDS OF SCIENTIFIC SECRETS

Boys, do you know the answers to these questions?

How to test a raisin for iron?

What chemical makes wood fireproof?

How to tell wool from cotton?

What chemical makes a fireplace flame burn red?

What food products corrode aluminum pans?

What chemical removes iodine stains?

How to freeze things with chemicals?

How to turn a lemon into an electric cell?

How to write messages in invisible ink?

How to test water for "hardness"?

Do these questions sound hard? They're not really—not when you own a Gilbert Chemistry Set. For a Gilbert Chemistry Set puts literally hundreds of scientific secrets at your finger tips. There's an air of adventure about chemical research. You feel you are conquering unseen forces as you make strange chemicals change color—transform a liquid into gas—then into a solid—and finally back to a liquid again.

It's fun, too, to startle your family and friends with uncanny feats of chemistry. Imagine Dad's surprise when you make a compound that prevents his windshield from fogging in rainy weather. Picture Mother's amazement when you make iodine, bleach flowers or transform her baking soda into washing soda. Think how your friends will gasp with wonder when you write messages in fire ink, make a chemical weather flag, produce your own paints, cement, sparklers, soda water and perform other dazzling tricks.

More Boys Have Won Fame and Big Awards With Gilbert Chemistry Sets Than Any Other Chemistry Sets Made

Year after year Gilbert Chemistry Sets have been the kind used by boys who have accomplished important things in chemistry. There was Dean I. Walter who worked out a chemical trick for catching a locker thief at his school. He compounded a solution that turned dark when exposed to the light. It spilled on the thief's hand and gave the culprit away. And Dean won a big cash award for his trick!

Stanley Stewart received \$100.00 for developing his "Green

Fairy Fire" experiment. Winfield Worth got a \$50.00 reward for discovering a new way to write messages in invisible ink on his arm. Herbert H. Harrell was awarded a handsome check for developing an improved process for extracting aluminum from clay.

Records like that mean something. Don't be fooled by the "just-as-good" kind of chemistry sets. Make sure the box reads "Developed at the Gilbert Hall of Science."

**AUTHENTIC—LABORATORY
TYPE EQUIPMENT**

**THE ORIGINAL
COMPLETE—SCIENTIFIC
PROFESSIONAL-LIKE
LABORATORIES**

**RECOGNIZED LEADERS
FOR 25 YEARS**

**100% SCIENTIFIC
100% UP-TO-DATE**

**MANUALS WRITTEN BY
FAMOUS AMERICAN
UNIVERSITY PROFESSORS**

You, too, can win a big cash award in Chemistry. See page 2 for full details.

These New Gilbert Chemistry Labs are Super-Duper!

Developed at the Gilbert Hall of Science in collaboration with one of America's outstanding chemical research laboratories, under the direction of Treat B. Johnson, Yale University, Ph.B., Ph.D., these new sets are far more than "toy" sets. They are practical working laboratories.



No. 1 CHEMISTRY

Dandy Beginner's Set—Contains 23 pieces of chemicals and apparatus including wooden test tube rack. Large manual shows how to perform 151 experiments. Priced so every boy can become a Gilbert Chemist.

Price, \$1.00



No. 3 INTERMEDIATE CHEMISTRY LABORATORY

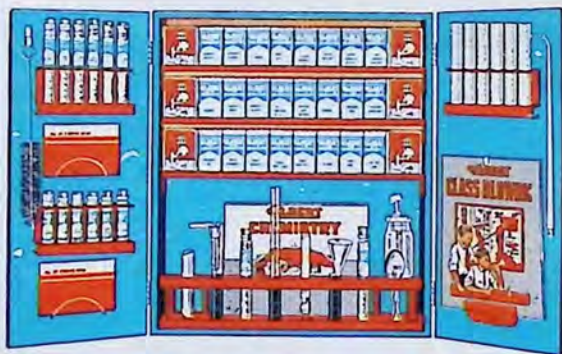
Two-door blue wooden laboratory cabinet that opens up to 19 $\frac{3}{4}$ " in length, 49 pieces of chemicals and apparatus in handy racks and shelves that total a length of three feet. Puts 345 fascinating and uncanny experiments at your finger tips. Big manual by noted Yale professor tells you how to do scientific things in a scientific way. Weighs 41 $\frac{1}{4}$ pounds.

Price, \$3.50

right—No. 2 JUNIOR CHEMISTRY LABORATORY

Blue wooden laboratory cabinet containing 27 pieces of chemicals and apparatus—27 inches of metal shelf room and test tube racks. Performs 151 experiments

Price, \$2.50



No. 6 PRIZE WINNING SENIOR CHEMISTRY LABORATORY

Think of having five feet of metal shelf room and test tube racks in front of you—all crammed with mystery making chemicals and pieces of apparatus—63 pieces in all. That is what you find when you open this big blue 26" wooden cabinet. Two manuals—chemistry and glass blowing—describe over 400 exciting chemical feats.

Price, \$5.00



Big-Time Labs for Big-Time Chemical Research

The Gilbert Chemistry Laboratories shown on this page were developed at the Gilbert Hall of Science for boys who want to strike out for themselves in the mystic realm of chemical research—who want to do original experiments—who want to explore all the highways and byways of chemistry and related sciences.

The apparatus is precision-made, so that experiments can be performed under rigid control. The assortment of chemicals is unusually complete.



No. 10 INVENTOR'S CHEMISTRY LABORATORY

Fully opened up, this blue wooden laboratory measures almost 39 inches in length and stands over 14½ inches high. 100 pieces of chemicals and apparatus stand in bright array on its 7½ feet of test tube racks and shelf room. Set includes scales and three big books describing over 600 experiments in chemistry, glass blowing and chemical magic. Weighs 10 pounds.

Price, \$10.00

No. 15 MASTER SCIENTIST'S CHEMISTRY LABORATORY

Every inch a laboratory for a master chemist—in size, equipment and magnitude of the experiments it puts at your finger tips.

Imagine standing in front of it. It is 51½ inches long, weighs 15 pounds and has over 9 feet of shelf room and test tube racks.

Its equipment includes a vast array of chemicals, scales, beaker, flask, alcohol lamp, gas generator, thermometer and numerous other pieces.

The range of experiments totals over 800, the four big manuals giving experiments not only in chemistry but also in glass blowing, mineralogy and chemical magic. Many of these experiments have never before



been offered in boys' experimental chemistry sets. They include exciting and spectacular experiments with dry-ice, artificial refrigeration, ethyl gas, lacquers, paints and water colors, testing of foods, electro-chemistry, electro-plating, electrotyping, etching, electrolysis and many others.

Price, \$15.00

Sit here, Boys, and be the Chief Chemist of this Big Blue Lab.



No. 6A CHEMISTRY LABORATORY — DESK TYPE

You are all set to do big things in chemistry when you have this combination Chemistry and Glass Blowing Laboratory outfit. The desk is of sturdy heavy corrugated cardboard and has a hinged top. The two-door wooden cabinet contains 63 pieces of chemicals and apparatus, putting at your finger tips more than 400 fascinating experiments—experiments that will almost make your eyes pop out of your head and will appear doubly mystifying to your friends.

Two manuals: one on chemistry and one on glass blowing tell you how to get the most fun out of this marvelous outfit.

Price, \$6.95

Tramp! Tramp! Tramp!
The Kaster Kit Army Is On Parade —



Boys! How would you like to have not just a few lead soldiers but a whole army of them? An army made up of different kinds of soldiers—officers, infantrymen, cavalrymen, artillery, tanks, airplanes and band units—all brightly colored. It's easy to make soldiers, and other figures with a Gilbert Kaster Kit. Your metal comes in handy bars. Melt them down in a little pot and pour the metal into the mold. The finished figures come out as perfectly shaped as any lead soldiers you ever saw. After they cool, you can color them if you like.

Make Pageants of World-Stirring Events

Kaster Kit molds come in so many different figures that you can make pageants and tableaus of all kinds of dramatic events. You can arrange your figures to portray colorful parades. Indians and soldiers can be used to create the thrilling spectacle of Custer's last stand. The battle of Manila can be re-enacted with figures of ships and guns. American Legion parades, famous airplane flights and dozens of other highspots in history and news of the day can be shown with picturesque realism with Kaster Kit figures.

Many boys earn extra spending money by making Kaster Kit models and selling them to their friends. Think of the thrill of having a hobby that can pay for itself—and then some.

Kits and Molds on following pages

Casting Outfits start at \$1.00

Electrically Heated Kaster Kits start at \$3.50

NOTE: The Gilbert Hall of Science Recommends Selecting a Kaster Kit with electric heating unit



No. 1 METAL CASTING SET

Non-Electric. Simple to operate. Has wooden handles for lifting. Mold pin locks securely in spring-grip receptacle. Complete with 1 double mold, cleaning and handling tools, 6 pigs metal, pouring ladle, can of paint, instruction sheet.

Price, \$1.00



No. 2 METAL CASTING SET

Non-Electric. Contains three molds and four finished figures. Other equipment includes 12 pigs of metal, ladle, mold holder, trimming tool, three paints, brush and instruction sheet.

Price, \$2.00



No. 3 1/2 KASTER KIT

Complete electrically heated casting outfit, mounted on steel base. Can be attached to any electric socket. Has two molds and three finished figures. 12 pigs of metal. Mold cleaning and handling tools, and instruction sheet come with set.

Price, \$3.95

SLUSH MOLDS FOR No. 7 1/2 KASTER KIT

85 cents each

(Cannot be used with other Kaster Kits)
These molds make true-life hollow castings. Use 50% less metal than ordinary castings.

- S40 Cannon
- S41 Sailor
- S42 Marine Officer
- S43 Automobile
- S44 Airliner
- S45 Indian Chief
- S46 Warrior with Gun
- S47 Soldier
- S48 Officer
- S49 Cadet
- S50 Cold Stream Guard
- S51 Medical Officer
- S52 Nurse
- S53 Stretcher Bearer
- S54 Wounded Soldier on Stretcher



KASTER KIT MOLDS—Price 60c each

LISTING — NAME AND NUMBER

- | | | | |
|-----------------|-----------------|----------------------|----------------------|
| 1. Army Officer | 5. Infantry (1) | 10. Cowboy | 25. Drum Major |
| 2. Infantry (2) | 6. Cavalry | 17. Locomotive | 26. Drummer |
| 3. Indian | 8. Airplane | 18. Tank | 27. Bugler |
| 4. Howitzer | 9. Battleship | 19. Kneeling Soldier | 28. Bass Horn Player |
| | | | 29. Machine Gunner |



New No. 7½ Gilbert Slush-Mold Electric Kaster Kit World's Only Casting Outfit that Makes True-Life Figures with Minimum Amount of Metal



BUY YOUR MOLDS BY THE SET

(Solid-type molds can be used with all Kaster Kits)

Military Series—contains 4 military molds. Adds to your assortment and helps complete your setting.

Price per set, \$2.00

SPECIAL SAFETY FEATURES

The new No. 7½ Kaster Kit is the speediest, safest and most realistic casting outfit you can own. Molding soldiers and other figures becomes as simple as 1-2-3. The electric melting pot operates from your house current. Lifting the control lever permits the molten metal to flow into mold. A twist of the wrist slushes off excess metal, giving you a true-life hollow casting.

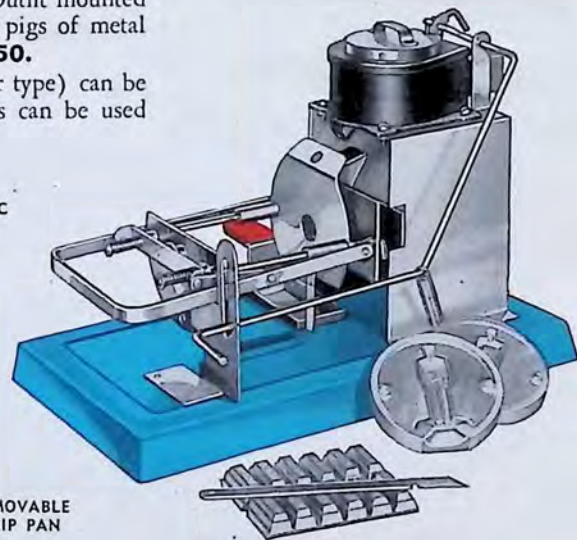
True-life Kaster Kit castings look like real — not flat and skinny like many ordinary castings. Also, because they are hollow, you get more figures from the same amount of metal.

Operates on A.C. or D.C. 60 cycles or less. Outfit mounted on safety base. Complete with one mold, 12 pigs of metal and all necessary tools and instructions. **\$5.50.**

All Kaster Kit molds (both slush and regular type) can be used with No. 7½ Kaster Kit. Slush molds can be used *only* with No. 7½ outfit.

ELECTRIC — AUTOMATIC
SAFE — SPEEDY
APPROVED BY
UNDERWRITERS

MOUNTED ON
SAFETY BASE



REMOVABLE
DRIP PAN

KASTER KIT PIGS OF METAL

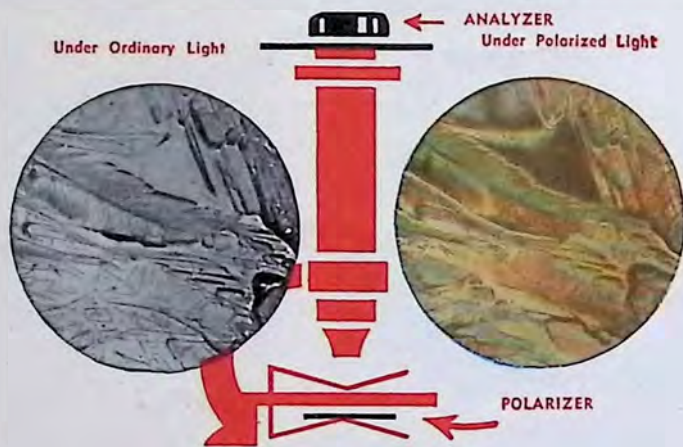
For most perfect castings, be sure to use genuine Gilbert Kaster Kit Metal. 24 pigs to a package.

Price, 30c per package



Gilbert POLARIZING MICROSCOPES

Open the door to a New Wonderland of Natures Hidden Colors



Polaroid is a new patented invention which controls light waves—cutting out waves from some directions and allowing other waves to pass through.

As applied to a microscope, Polaroid reveals the objects examined in more clearly defined detail and—even more startling—vividly brings out colors that are not visible to the naked eye.

With a Polaroid equipped microscope—and only with such a microscope—the invisible becomes visible. Startling colors, otherwise unseen, blaze forth under polarized light in gorgeous effects. Stems of plants, fish scales, crystals, wing cases of beetles, sections of minerals, human hair, natural fibres—all are found to have beautiful and fantastic colors.

The colors have always been there, but with ordinary microscopes they remain hidden. Only with a Polarizing Microscope can your eyes pierce the veil of secrecy under which are concealed some of the world's most spectacular colors.

Gilbert Polarizing Microscopes are equipped with a Polarizer, which fits underneath the stage, and an Analyzer that is placed over the eyepiece. (See illustration at left.) The Polarizing equipment is Polaroid Jr. and when it is removed, the microscope can be used in the conventional way.



Every Specimen Brings a New Thrill

Owning a Gilbert Polarizing Microscope is like taking a trip to Magicland. Each time you examine a new specimen, you feel as though you are exploring some new corner of this Magicland . . . for each object has its own distinctive configurations and dramatic coloring.

Gilbert Super-Power Microscope Sets . . .

Every Set with a Polarizing Scope and
Electrically Illuminated except No. 1

The science of microscopy is one of the most exact of all sciences . . . You can't make perfect observations unless you have fine, skillfully made equipment.

Microscopes from the Gilbert Hall of Science are right in every respect. They are truly scientific instruments designed by experts

Here is another point. Your Dad doesn't have to be a rich man in order for you to enjoy the unending delights and thrills of microscopy. After you get your microscope, you can get thousands of specimens without paying a penny. Bits of wood, fabrics, bird feathers, minerals—almost anything around you is a fascinating object for examination.



**No. 1
MICROSCOPE
SET**

Contains 150 power Microscope with arrangement for tilting, spring clips to hold slides, adjustable mirror, slides, specimens, dissecting needle, forceps, specimen collector, slide covers and manual. **Price, \$1.25**

**No. 2
MICROSCOPE
SET**

Contains 150 power microscope and Polaroid Jr.—the new attachment that enables you to see mysterious brilliant colors not revealed with ordinary microscopes. Has sub-stage light. Microscope has tilting device, wheel focusing, and spring clips to hold slide and polarizer. Specimens, dissecting needle and other equipment come with set.

Price, \$2.50



No. 3 MICROSCOPE SET

The tiniest particle looks gigantic under this 200 power microscope. Its Polaroid Jr. analyzer and polarizer gives you the extra thrill of discovering colors not seen with the naked eye. Set includes sub-stage light, hand magnifying glass, chemicals and stains, supply of specimens, one prepared slide, extra slides, dissecting needles, manual.

Price, \$3.50

and made with clock-like precision. The accuracy with which Gilbert lenses are ground and polished—the care with which all parts are assembled—the ease with which each instrument can be handled, make Gilbert Microscopes the No. 1 choice of boys who want to see all and know all.

FLY'S FOOT



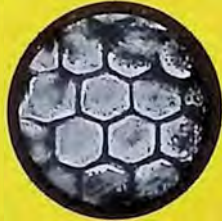
DOG FLEA



SPIDER'S FOOT



DRAGON FLY'S EYE



The Sets That Show Nature's Secrets in the Raw . . . That Reveal Colors Never Seen with Ordinary Microscopes

The new Gilbert Microscope Sets make microscopy *twice* as thrilling and spectacular as ordinary microscopes. They magnify specimens to enormous size and brilliant clearness. A dog's hair appears like a strand of rope. A fly's foot looms up like a cat's paw.

Most magnificent of all are the sights you see when you attach the Polaroid Jr. This new invention combs the vibrations out of light and removes the veil under which nature has concealed some of her most vivid and beautiful colors.

Sugar crystals, for example, appear white to the naked eye. But

put them under a Gilbert microscope with Polaroid Jr., they look like an array of brilliant jewels.

Layers of Cellophane take on weird and fantastic tones. Tiny starch crystals appear as shining colored crosses. Chemicals, plants, insect wings and hundreds of other specimens reveal gorgeous hues that cannot be seen with ordinary microscopes.

P.S. Be sure to read about the \$200.00 annual awards for research in microscopy described on page 2.



SUB-STAGE LIGHT

In all sets except No. 1

Gilbert sub-stage light puts a strong light on your specimens just where you need it. Makes details more vivid. Complete with bulb and cord, ready to be plugged into any 110-volt socket. **Price, 75c**



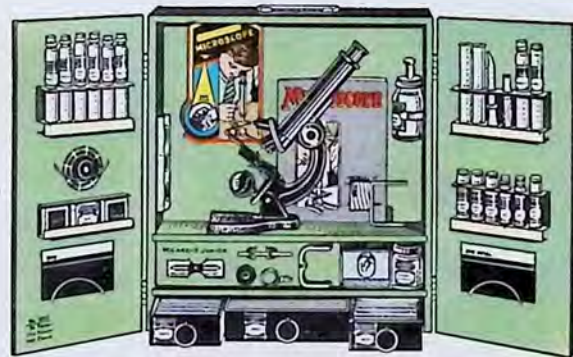
No. 5 MICROSCOPE SET

Think of having a microscope with magnifying power of 50, 90 and 210 diameters—a Polaroid Jr. analyzer and polarizer that reveals nature's hidden colors—38 pieces of apparatus, including sub-stage light, chemicals and equipment—a manual showing you how to perform 213 experiments in microscopy. This set is literally crammed with thrills. **Price, \$5.00**



No. 7 MICROSCOPE SET

Here's a set to make you a true scientist! Handsome wooden cabinet forms a microscopic laboratory with all equipment in shelves, racks or drawers. 110-150 power microscope shows a wide field in clear detail, has Polaroid Jr. analyzer and polarizer, and 2-wheel rack and pinion focusing device. Set includes 4-piece magnifying unit, 2 dissecting needles, 9 vials of chemicals and stains, extra slides, sub-stage light, big illustrated manual and other equipment. **Price, \$7.50**



No. 10 MICROSCOPE SET

Genuine professional-type equipment. A microscope with three different objective lenses mounted in turret and giving up to 400 magnifying power. Sub-stage light shows specimens in clear-cut detail and makes colors more vivid when using Polaroid Jr. analyzer and polarizer. Bench microtome, alcohol lamp, large assortment of specimens, chemicals, extra slides and other equipment make this a set with which you can do important research. Complete in de luxe wooden cabinet. **Price, \$10.00**

Tiny Tot's Delight GILBERT KIDDIKINS

The strange animals and colorful figures that can be made with these queer-shaped wooden parts have a special appeal for tiny tots who are just learning the art of putting things together. Parts are finished in red, yellow, blue, green and natural finish and are especially designed for easy assembly by chubby hands. The Kiddies Parade, a picture folder, comes with each set. 25 Kiddikins—you can make them all.

Price \$1.00

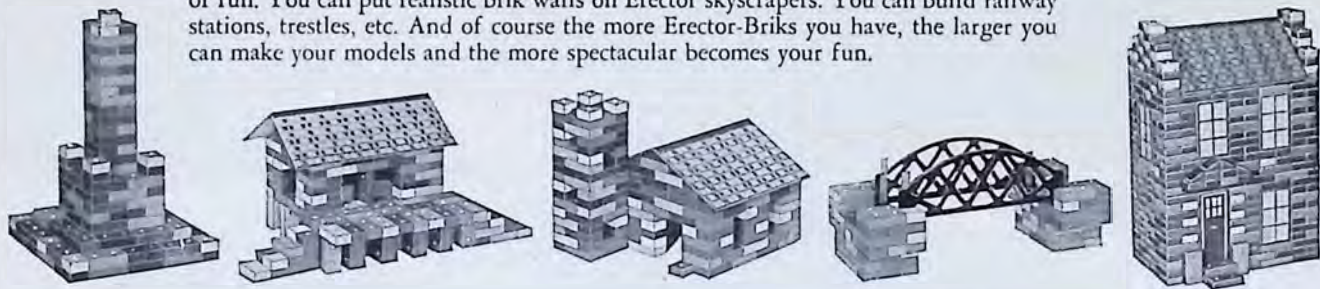


Any Boy Can Get in on the Fun of Building Big Colorful Structures with the New Erector—Briks

Bright-Colored Briks with Special, Quick-locking features for easy, sturdy, building.

With Erector-Brik you can build a fire house with a bright red front—colorful bridges—and castles—houses with realistic windows and doors, and trees in the yard. Every size Erector-Brik has special locking features for fitting securely and making firm, true walls. Half briks and triangular briks make possible neat corners and interesting porch and roof effects. Roofs, doors and windows come completely assembled and can be put in place in a jiffy. Every set contains an array of blue, red, green and white briks—making them ideal for building replicas of World's modern structures, bridges in four colors and the like.

If you own an Erector Set or an American Flyer Train Outfit, Erector Briks add loads of fun. You can put realistic brik walls on Erector skyscrapers. You can build railway stations, trestles, etc. And of course the more Erector-Briks you have, the larger you can make your models and the more spectacular becomes your fun.



right—

No. 3 ERECTOR-BRIK

Heaping fist-fulls of whole, half and triangular briks, together with doors, windows, metal bridges and roofs. Complete with instruction manual.

Price \$3.00

Other Sets
\$1.00 and \$2.00



left—

No. 5 ERECTOR-BRIK

Big red box containing metal bridges, trees, two doors, six windows, roofs in a variety of shapes, sizes and colors—and crammed with whole, half, and triangular briks. A truly de luxe outfit for boys who like the thrill of building things in a big way.

Price \$5.00



**Scientific Outfits
chock full of
Fascinating Fun
and Thrills**



GLASS BLOWING SET

Equipment and instructions for building a submarine, syphons, levels, air gun and performing a total of 80 experiments in the magic art of glass blowing. Complete with 31 pieces of glass tubes and other equipment.
Price, \$2.25



MINERALOGY

Do you know that various rocks are as different from each other as various plants and animals? Gilbert Mineralogy shows you how to analyze, test and identify them. Complete with 45 pieces of minerals, equipment and apparatus. Instruction manual included.
Price, \$2.00

**It's Fun to Tame Electricity and
Make it do Strange Tricks for you . . .
Mystery, Excitement and Thrills by the Hundreds**



You see the great, mysterious force of Electricity used in your home every day—lighting the house—running the vacuum cleaner, washing machine, radio, toaster, iron and many other devices.

Then there are times when you see Electricity on a rampage as, for example, when lightning strikes, a short circuit develops or a fuse blows out.

Just how does electricity work? How can the same force carry light, power, telegraph messages, even your voice over tiny wires? It's fun to know these things. It's even more fun to assemble electrical and magnetic devices and make Electricity obey your commands.

You will find fun by the hour—thrills by the hundreds in Gilbert electrical and science sets.

And that's not all. Mr. Gilbert is offering awards totalling \$200.00 for research in electricity, chemistry and microscopy. See page 2 for full details. You stand as good a chance to win as the next boy.



GILBERT MAGNETIC FUN AND FACTS

Contains super-strong magnets, compass and other equipment for building magnetic navy, putting whiskers on a needle, spinning a suspended top and other tricks.
Price, \$1.00



GILBERT FUN WITH ELECTRICITY

You can see just how electricity works with the fascinating equipment in this big box. Full of parts for building your own electric motor, electro magnets, bell, buzzer. Complete with instruction manual.
Price, \$2.75

Not Just "Toy" Sets — But Practical Working Models of Great Scientific Developments

Boys! There's no "make-believe" to these sets. They are the real thing. They are among the finest achievements of the Gilbert Hall

of Science—sets that you will be proud to own and that will make you the envy of every boy in your crowd.



GILBERT ELECTRIC EYE

Turns lights on and off by a wave of your hand. Can you think of anything more uncanny than cutting off an electric light by a mere wave of your hand—making a bell ring by striking a match—making the sunrise operate an alarm—or turning a radio off and on by snapping a flashlight? These are only a few of the things you can do with this amazing invention.
Price, \$5.95



GILBERT TELE-SET

It's great fun to be a telegraph operator. Gilbert Tele-Set contains complete telegraph instruments for sending and receiving. Has quick-action key, high pitch buzzer, flash bulb for night signaling or silent code, 100' feet of wire. International Morse Code Charts.
Price \$2.50

GILBERT TELEPHONE SET

Have your own private telephone system. House to house. Room to room. Set consists of two modern-type hand phones with receiver, transmitter and dial in base for calling other stations.
Price, \$4.95



GILBERT ADVANCED ELECTRICAL SET

A veritable storehouse of exciting electrical parts and equipment. Contains the mysterious Electric Eye, super-sensitive microphone, magnetic equipment and telegraph key. Large assortment of parts builds two motors, telephone receiver and permits wide range of experiments in electricity and magnetism. Three large illustrated books with set.
Price, \$10.00



Gilbert Trusty Tools in Strong Metal Cabinets . . . for Boys Whose Fingers Itch to Build Things



No. 1 CABINET

The Jim Dandy, 10 pieces for the young carpenter—packed in blue metal carrying case with brass handle and suit case catch.
Price, \$1.00



No. 2 CABINET

A few boards plus the tools in this handsome red metal carrying case are all you need to make dozens of the things you want. A total of 18 he-man pieces in a cabinet built to last a lifetime.
Price, \$2.50



No. 3 CABINET

Measuring 17¼" long, 9¼" wide and 2¾" deep, this green metal carrying case is a real craftsman outfit. Its 15 keen and true pieces transform boards into treasure chests, bookshelves and other things in a jiffy.
Price, \$3.95



No. 5 CABINET

15 pieces of better grade tools in blue metal carrying case—including 16" cross cut saw, 7" plane, brace with 2-jaw screw chuck and other practical pieces. Suitable for hard woods as well as soft.
Price, \$5.00



Gleaming Tools in Lifetime Chests or With Hardwood Workbench

Show these tool chests and workbench outfits to Dad and see if he wouldn't like to become your partner in having a real home

workshop. There's almost no limit to the things you can make with this fine equipment from the Gilbert Hall of Science.

No. 6 TOOL CABINET

Handy Set. 22 pieces of real practical tools—16" Saw, 2-jaw Screw Chuck Brace, Hammer, 8½" Plane, Level, etc. Red metal carrying case, brass handle, reinforced corners and suit case catches.

Price, \$7.50



No. 10 TOOL CABINET

Household Treasure Chest. Packed in blue metal carrying case, brass handle, reinforced corners and suit case catches. Contains 30 pieces including 16" crosscut and rip saw, Scroll Saw, Chisels, Level, Drills, 8½" Plane, Soldering Iron, 2-Jaw Screw Chuck Brace, etc.

Price, \$10.00



No. 8½ BENCH TYPE TOOL CHEST

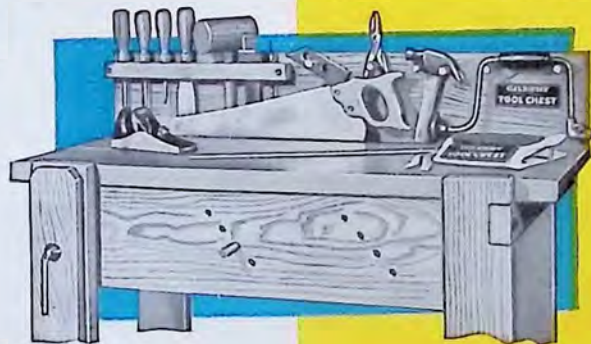
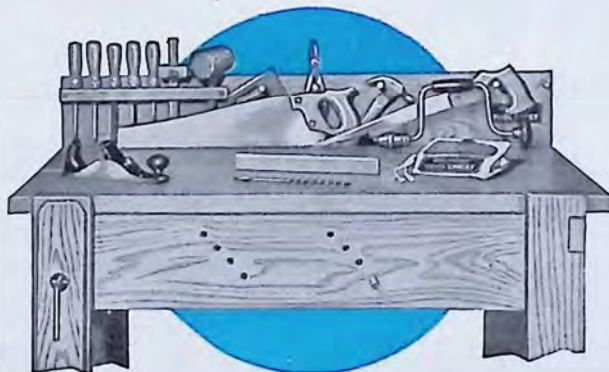
A tool chest and workbench combined. Bench has hardwood top, back rack, wood vise grip. Stands 30½" high, 32" long and 15¼" wide. 15 useful, high grade tools come with chest.

Price, \$9.95

No. 12½ BENCH

New, Modern, improved with wood top, tool rack and legs. Wood vise grip, 16" cross cut saw, chisels, hammer, plane, brace and bit, etc. 17 useful tools in all. Finish, natural wood. Assembled stands 32" high, 38" long, 21" wide.

Price, \$14.95



Gilbert Puzzle Sets – A Test for Nimble Fingers and Nimble Minds

Most every one knows that solving puzzles is about the most fascinating and interesting fun you can have. There's always that tantalizing catch to overcome and no quitting until those teasing twisters are unravelled. Just think of the sport you can have at parties, when different

puzzles are given out and a prize put up for the one who solves their puzzle first.

You'll laugh as your friends struggle over them—yet they're easy when you know how.



No. 1034 GILBERT TRICKS

A most interesting collection of puzzling tricks assembled in four color labeled carton. 6 clever tricks in all that will test your skill and bring hours of fascinating and interesting fun. Solve them yourself, then try them out on your friends. Every trick a teaser. Radio Tube Trick, Hungry Pup, Ring-a-Peg, Ball and Gear, Topsy Turvy Rivets and Ring-a-Tail. Highly amusing and mysterious for grown ups as well as youngsters.

Price, \$1.00



No. 1031 PUZZLE SET

Six interesting puzzles, each one with a "catch" of its own. Lots of fun at parties or at school. Manual tells how to solve them.

Price, 25c

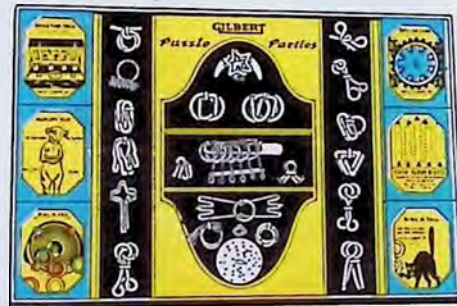
No. 1031 1/2 PUZZLE SET

The chances are you've never seen the 12 puzzles in this set. You can keep your friends puzzled over them for weeks. Complete with big instruction manual, 50c.



No. 1032 GILBERT PUZZLE SET

A mammoth collection of up-to-the-minute puzzles—21 in all. Instruction book gives full details on solving them. Price, \$1.00



No. 1033 TRICKS AND PUZZLES

Contains 22 wire puzzles and 6 new baffling teasers such as Radio Tube Trick, Hungry Pup Trick, Ring-a-peg, Ball and Gear. Amusing, ingenious, mysterious, and provides gales of laughter.

Price, \$2.00



Gilbert Mysto Magic Sets — New This Year

Mystify Your Friends: Be a Magician. You Can, One Hour After You Get a Gilbert Mysto Magic Set. Crammed With Mysterious Baffling, Intriguing Tricks You've Never Seen Before.



No. 1 GILBERT MYSTO MAGIC

Contains 10 tricks intriguing enough for the stage—simple enough to baffle your friends at school. The famous and mysterious Photoplasmic Mystery, Cut and Restore Paper Ribbon, Multiplying Cards, Multiplying Coins, Vanishing Handkerchief, Buddha Money Mystery, Phantom Card Trick, Galloping Dime, Hiding Chessman, Spiral Wire Illusion.

Price, \$1.00



No. 2 GILBERT MYSTO MAGIC

This set brings you 12 startling and mystifying tricks, plus a magician's moustache and goatee to make your shows more realistic. Tricks include famous Ming Toy Laundry Ticket, Mysterious Vanisher, New Ace Trick, Sphinx Card Trick, Multiplying Billiard Balls, Jumping Peg, Svengalia Mind Reading Wonder, Mysterious Linking Rings, and others.

Price, \$2.00

No. 3 GILBERT MYSTO MAGIC

Contains some of the most famous tricks in the world—every one new, different and not contained in any other set. Magician's make-up kit includes moustache, goatee and poster. Among the tricks are: Tripping Fantasy, Balance of Fate, Baffling Handkerchief problem, the Great Solid thru Solid Mystery, Elusive Discs, Patriotic Cylinders, Ching Ling Soo, Ching Ling Foo, Two manuals, one on Magic and one on coin tricks.

Price, \$3.50



No. 5 GILBERT MYSTO MAGIC

An assortment of ingenious and mystifying tricks from all countries that will hold an audience spell-bound for two hours. Famous Dice in the Box Mystery, Magician's Rhapsody, Glass and Bottle Transposition, Handkerchief Cassette Trick, Drum Head Tube Trick, Acrobatic Wedding Ring Trick, Vanishing Handkerchief Trick. Contains Magic manual, also books on Handkerchief Tricks, and Knots and Splices that describe many additional tricks. Complete with magician's moustache, goatee and poster.

\$5.00.



NOW YOU CAN GIVE REAL MAGICIAN'S SHOWS

Your friends will be speechless with amazement when you perform the mysterious and intriguing tricks of Gilbert Mysto Magic. Mysto Magic Sets are full of new tricks—tricks never before offered in amateur sets—the closely-guarded secrets of world-famous magicians—stunts that bring the house down with applause.





GILBERT

AMERICAN FLYER

REALISTIC SCALE MODEL TRAINS AND EQUIPMENT

WHEN IT'S 3/16" SCALE MODEL IT'S THE REAL THING



HERE'S A PHOTOGRAPH OF A REAL
RAILROAD BAGGAGE CAR



WRONG - Not Scale Model
Here's a typical toy train passenger car. Notice how completely out of proportion it is, when compared with a real railroad car.



CORRECT - AMERICAN FLYER 3/16" SCALE MODEL

Here's an American Flyer scale model built true to life from railroad blueprints. It looks so much like the photograph of the real car that you can scarcely tell which is which.

Boys! Which would you rather have: An electric train that half-way resembles a real train or an exact reproduction?

Of course you want the exact reproduction! That is what the new American Flyer 3/16" Scale Models are . . . locomotives and cars built to scale from actual railroad blueprints. For every foot of real train length, height or width, these sensational scale models are made 3/16" of an inch. Thus, they look more realistic . . . they storm over the rails more realistically.

Any standard "O" Gauge track of 40" diameter or more will take these new American Flyer 3/16" scale trains. What's more, they are the largest scale size that operates on "O" gauge track without constant danger of derailment.

American Flyer's many special features make miniature railroading more fun, too. Automatic couplers and remote control electric uncoupling. Lucite block signal system that automatically stops and starts trains—flashes red and green—just like real. Remote control whistling from your train—or illuminated billboard whistle that blows automatically or by remote control. Here are more features. "A-Koostikin," the talking railroad station that automatically stops your train—produces true-to-life sound effects of central station—then starts your train again . . . thrilling electromatic loading and unloading crane . . . locomotives with remote directional control that banishes jiggling back and forth after stops and permits two train operation on single track. See the new American Flyers at your local toy store today.



NEW SAFETY FIRST TRANSFORMERS

Gilbert American Flyer Transformers keep your railroad on a "Safety First" basis. Built-in circuit breaker protects both fixed and variable voltage. Red pilot light flashes on when short circuits occur—stays on until short is corrected. Tell-tale green pilot shines as long as current is passing through transformer. Simplified 3 terminal post arrangement eliminates complicated equipment circuits.



DEVELOPED AT THE GILBERT HALL OF SCIENCE



NEW WORM DRIVE LOCOMOTIVES

An expensive train feature now in popular priced trains for first time. Worm drive permits more even and powerful pull—quieter operation—more accurate control from slow crawl to high speed.



BIG 48-PAGE ILLUSTRATED COLOR CATALOG

Shows the complete line of American Flyer Scale Model Hotshots and the spectacular array of American Flyer Scale Model Equipment.

It's free . . . just send your name and address on postcard to

American Flyer Trains
98 Erector Square
New Haven, Conn.

(Offer good only in U. S. A. and Canada)