

The Newark Museum

The Education Loan Collection

LIFE SCIENCES

Codes: Chart (C), Dry specimen (D), Herbarium mount (H), Model (M), Plastomount (P), Riker mount (R), Taxidermy (T)

ECOLOGY

- Ecology Set
- Forest Biorama
- Freshwater Biorama
- Pond Biorama
- Globe
- Marine Biorama
- Meadow Biorama
- Rain forest insects (South America)
- Soil Biorama

Teacher Resource Packet

- Animals of the Rain Forest includes video and reading material (grade 3 - 6)
- Plants of the Rain Forest includes video and reading material (grade 3 - 6)
- People of the Rain Forest includes video and reading material (grade 3 - 6)

PLANTS

- Plant Cell (M)
- Plant Kingdom (C)
- Simple Plants (C)

NON VASCULAR PLANTS AND PLANTLIKE ORGANISMS Protista Kingdom

- Algae (Blue - green and others) (P)
- Algae (P)
- Amoeba (M)
- Euglena (M)
- Kelp (Blade) (H)
- Lichen (D)
- Paramecium (M)
- Protozoan (Invertebrate) (C)
- Slime molds (P)

Fungi Kingdom

- Fungi (Mushroom Types) (P)
- Fungi Types (P)
- Fungus (Beefsteak) (D)
- Fungus (Bracket)
- Lichen (P)
- Lichen Scene (P)
- Lichen Types (P)

Monera Kingdom

- Bacteria Morphology (M)

Plantae Kingdom

- Liverworts (P)
- Moss (Sphagnum) (D)
- Mosses Sets (various samples of dry moss)
- Plant Reproduction - Fruiting (Alga, Fungus, Liverwort, Moss, Fern, Horsetail, Gymnosperm, Angiosperm) (P)

VASCULAR PLANTS

- Plant Reproduction - Vegetative (Storage root, Bulb, Runner, Stem cutting, Underground stem, Leaf, and Bulbil) (P)

Ferns

- Fern Fronds (H)
- Fern Fronds (P)
- Ferns and Mosses(P)

Seed Plants

Roots

- Root Systems (P)

Stems

- Conifer Cross - Sections

Leaves

- Autumn Leaves (C)
- Leaf Shapes (P)
- Leaf Skeleton (P)
- Leaf Types (Gymnosperm, Monocot, and Dicot) (P)

Gymnosperms

(those plants that do not produce flowers: Conifers, Cycads, and Ginkgos)

- Cones (Pine) (D)
- Cones (Sequoia, and Redwood) (D)
- Cones (Spruce) (D)
- Ginkgo (life history) (P)
- Pine (life history) (P)
- Seeds Cone Set #1 (Black Spruce, Pitch Pine, Young Pitch Pine, Larch, White Pine, and Norway Spruce) (D)

Angiosperms

(those plants that produce flowers)

- Galls (P)
- Jojoba (H)
- Marijuana (P)

Flowers

- Buttercup (P)
- Chrysanthemum (P)
- Desert Scene (P)
- Dogwood (P)
- Flower comparison (P)

- Flower Cross Section (C)
- Flowers Grow in Different Ways (C)
- Honeysuckle (P)
- Jack - in - the - Pulpit (P)
- Parts of a flower (C)
- Parts of a flower (M)
- Pea (P)
- Rose Family (C)
- Spring Flowers (P)
- Wild Flower Types (P)
- Wildflower Scene (P)

Leaves

- Autumn leaves (C)
- Leaf skeleton
- Leaf types
- Leaves

Seeds

- Monocot & Dicot Comparison (R)
- Seed Dispersal set (Consist of Sycamore, Milkweed, Thistle, Ailanthus, Maple, Curley Dock, Cocklebur, Horse Chestnut, Norway Maple, Beggar Ticks, Sweet Gum, Tick Trefoil, Queen Anne's Lace, Witch Hazel, Lobelia, Mallow, Black Walnut, Acorns, Yellow Dock, Beech, and Rye)
- Seed Germination (Lima bean) (P)
- Seed Germination (Corn) (P)
- Seed Germination (Pine) (P)
- Seed Types (Gymnosperm, and Angiosperm) (P)
- Kapok Pods

- (Fruit Types: Multiple, Legume, Capsule, Nut, and Samara) (P)
- Hazel Nut
- Horse Chestnut
- Milkweed
- Weed (P)
- Fruit Type: Berry, Drupe, Pome, Achene, Grain, Nut, Samara, Capsule, Follicle, Pod, Aggregate, and Multiple (P)

Grains

- Barley (P)
- Buckwheat (P)
- Corn (C)
- Oat (P)
- Rice (C)
- Rye (P)
- Wheat (C)

Medicinal Plants

- Belladonna (H)
- Carolina Ipecac (H)
- Foxglove (H)
- Goose Grass (H)
- Indian Tobacco (H)
- Spearmint (H)
- Sweet fern (H)
- Turtle Head (H)
- Wild Cherry (H)
- Wild Sarsaparilla(H)
- Wintergreen (H)
- Witch Hazel (H)

Hardwood Trees

- American Elm (H)
- Basswood
- Beech (H)
- Beech (life history) (H)
- Black Gum (H)
- Black Walnut Tree (wood) (H)

- Linden (H)
- Pignut Hickory (H)
- Red Maple (H)
- Southern Red Oak
- Spanish Oak (H)
- Sweet Birch (H)
- Sweet Gum (H)
- Sycamore Tree (wood) (H)
- Trees are Living Things (C)
- Twigs Shape a Tree (C)
- White Ash (H)
- White Oak (H)
- Willow Oak (H)
- Woods Set & Woods exhibit: Various samples of wood

Food Plants

- N.J. Farming (C)
- N.J. Vegetables (C)
- Tomato (C)
- Tomato Plant (H)

Fiber Plants

- Cotton (boll)
- Cotton (C)
- Flax (C)
- Kapok Pods - Indonesia (Java)

Harmful Plants

- Harmful Plants (P)
- Poison Ivy (P)
- Tobacco leaf (H)

Carniverous Plants

- Venus Flytrap (P)

ANIMAL LIFE

- The Animal Kingdom (Protozoans, Poriferans, Coelenterates, Platyhelminthes, Nematelminthes,

Brachiopods,
Echinoderms, Annelids,
Mollusks, Arthropods, and
Vertebrates) (C)

- Animal Cell (M)

INVERTEBRATES

Poriferans

- Chart

Sponges

- Commercial (P)
- Elephant ears
- Glass
- Grass & reef
- Hardhead
- Honeycomb
- Reef
- Sheepswool
- Vase
- Yellow

Coelenterates

- Chart
- Jelly fish (P)

Corals

- Brain
- Branch (specimen in plastic)
- Cactus (see also Rose)
- Finger
- Hawaiiin
- Ivory or tree
- Lettuce (or Shade)
- Mushroom
- Orb (see also Star)
- Organ pipe
- Palmate (branching tree)
- Precious
- Rose
- Rosy (or Red)
- Sea fan
- Sea feathers

- Staghorn
- Star
- Tree

Ctenophorans

- Chart

Brachiopods

- Brachiopod fossil

Mollusks

- Chart
- Mollusk Types (Aeolis, Snail, Mussel, Slug, and Squid) (P)

Shells

- Atlantic Coast Set (Common Rayed Scallop, Great Cockle, Great White Lucine, Lettered Olive, Measled Cowry, Tulip Sand , Left-Handed Whelk Tun, Cameo, and Helmet Fighting Conch)
- Miscellaneous Shell Set (Branched Murex, Helmet Tun, Green Snail, Red or Bull's Mouth Helmet, Pearly Top, Tiger Cowry, Melon, Common Spider, Purple Scallop, Black Abalone, Prickly Pen, Common Edible Mussel, Solid Surf Clam, and Pearly Oyster)
- N.J. Shell Sets (Quahog, Solid Surf Clam, Razor Clam, Edible Clam, Jingle, Common Scallop, Giant Scallop, Slipper Limpet, Ponderus Ark, Channelled Whelk and Egg Cases, Knobbed Whelk, Moon, and Common Oyster)
- Octopus (P)
- Oyster (common) (P)
- Shell (Branched Murex)
- Shell (Chambered Nautilus)
- Shell (Chiton)
- Shell (Helmet Sardonyx)
- Shell (Pen)
- Shell (Queen Conch)
- Shell (Spotted Bear's Paw)
- Snail (P)
- Squid (P)
- Tropical Shell Set (Pearl Oyster, Abalone Splendid Ear, Sunset, Spotted Bear's Paw, Great Top, West Indian Top, Hawk Wing Conch, Swollen Harp, Common Spider, Tiger Cowry, and Rose Murex)
- U.S. Pacific Coast Shell Set (Black Abalone, Green Abalone, Lime Carrier, Painted Thorny Oyster, and Chiton)
- Univalves and Bivalves (Whelk, True Conch, Operculum, Hard Shell, and Sunray Venus Clam)
- Whelk (life history)

Annelids (Worms)

- Chart

Arthropods

- Barnacle (Australia) (D)
- Barnacle (P)
- Barnacles (on Scallop Shell)
- Centipede

Crabs

- Blue

- Fiddler (P)
- Hermit
- Horseshoe
- Spider
- Spotted

Crayfish

- Crayfish (P)
- Crustacean Collection (P)
- Life History (P)
- Lobster (Shovel - nosed)
- Scorpian (P)
- Shrimp (D)
- Shrimp (Manta) (D)
- Southern (D)

Spiders

- Garden (life history) (P)
- Tarantula (P)
- Toy (puppet)
- Wolf (P)

Insects

- Ants (life history)
- Bugs-Common N.J. (Water Strider, Ambush Bug, Stinkbug, Common Milkweed Bug, and Squash Bug)
- Common New Jersey: (Wasp, Spittlebug, June Bug Beetle, Swallowtail Butterfly, Ladybird Beetle, Grasshopper, and Fly)
- Harmful: (Grasshopper, Cockroach, Larder, Beetles, Sunflower Weevil, Fly, Tent Caterpillar Moth, Japanese Beetle, Carpenter Ant, Colorado Potato Beetle, and Prions Beetle)
- Metamorphosis: (Grasshopper and Moth)

- Orders: (Neurotera: Dobsonfly, Diptera: Fly, Hemiptera: Cicida, Coleoptera: Fig eater, Odonata: Damsel fly, Lepidoptera: Swallowtail Butterfly, Hymenoptera: Horntail, Hemiptera: Ambush Bug, and Orthoptera: Grasshopper)
- Planthopper, Lanternfly (Central America)
- Water: (Beetles: Diving Beetle, Water Scavenger, Whirligig, Bug: Backswimmer, Water Strider, and Giant Water Bug)

Bees

- Bumble and Honey
- Bumblebee (puppet)
- Honey (with combs)
- Life History
- Worker and Drone

Beetles

- Caterpillar & ground (R)
- Click (with larva)
- Common New Jersey
- Cotton Boll Weevil
- Goliath (Ghana)
- Japanese (life history) (R)
- Ladybug (life history)
- Ladybug (puppet)
- Larder (life history)
- Longhorn (Harlequin; South America) (R)
- Medicinal
- Mexican (life history)
- Pinch Bug
- Potato (life history) (R)
- Sacred Scarab-Africa (male & female)

- South American (R)
- Unicorn

Butterflies

By country

- American (Locust)
- Africa
- Australia (Birdwing)
- Boliva
- Borneo
- Brazil
- Central America
- Central and South America
- China (Great Orange Tip)
- Columbia
- Florida
- India
- Japan (Great Orange Tip)
- Mexico
- New Jersey-Common (Painted Beauty, Common Sulphur, Orange Sulphur, American Copper, and Tiger Swallowtail)
- Peru (Swallowtail)
- Russia
- South America
- South America (Banded King Shoemaker)
- South America (Morpho)
- South America (Owl Head)
- Southern Asia
- United States (common)
- West Indies

By type

- Butterflies and Moth
- Butterfly Families
- Cabbage (life history)
- Caterpillar/Butterfly (toy)
- Cicadas (life history)

- Cockroaches (life history) (P)
- Crickets
- Dragonflies
- Grasshoppers
- Grasshopper (toy; puppet)
- Great Gulf Fritillary
- Gulf Fritillary
- Ichneumon - Fly
- Katydid
- Male and Female
- Monarch
- Monarch (life history)
- Monarch (male and female) (R)
- Monarch and Viceroy
- Mosquitoes (male and female) (P)
- Mourning Cloak
- Pearl-border Fritillary
- Praying Mantis (life history)
- Red Admiral
- Red spotted purple
- Singapore
- Sulphur and Cabbage
- Swallowtail (Spicebush)
- Swallowtails (Black and Tiger)
- Viceroy
- White (Common) and Sulphur (Cloudless)
- With Common N.J. Insects

Moths

- Apple Tent (life history)
- Atlas - South Asia (male and female)
- Australia
- Austria
- Cecropia
- Cecropia (life history)
- Comet (Madagascar)

- Common N.J.
- Cotton Boll Worm (life history)
- Cynthia (male and female)
- Gypsy (life history)
- Imperial (female)
- India (Attacus atlas)
- Isabella (life history)
- Luna (North American)
- Moth Bee (life history)
- Peach Borer (life history)
- Polyphemus (male and female)
- Polyphemus and Cecropia
- Prometha (life history)
- Promethea (life history)
- Scale (Oyster Shell Bark)
- Silkworm (life history)
- Sphinx (Hornworm and White-lined)
- Sphinx (life history)
- Sphinx (male and female)
- Sunset Moth (Madagascar)
- Underwing (Clouded Locust Wing)

Teacher Resource Packets

- Butterflies and Moths: Bug City video and reading material (grade 1 - 6)
- Termites (P)
- Thorny Hopper (Malaysia)
- Walkingstick-Giant winged (Papua New Guinea)
- Walkingstick-Spiny Devil (Papua New Guinea)
- Walkingsticks
- Wasps**
- Nest (Paper wasp)

- Paper wasp (life history)
- Section of comb
- Worker
- Yellow Jacket (male and female)

Echinoderms

- Chart
- Echinoderm Types (Starfish, Sand Dollar, Brittle Star, Sea Urchin, and Sea Cucumber)
- Sand Dollar
- Sea Urchin
- Starfish

VERTEBRATES

Agnatha (Jawless Fish)

- Brook Lamprey (plastic embedded)

Chondrichthyes (Cartilaginous Fish)

- Shark Jaw
- Skate egg case

Osteichthyes (Bony Fish)

- Bass (Calico) (T)
- Bass (Wide Mouthed Black) (T)
- Blue Gill (P)
- Cowfish (D)
- Needle (D)
- Perch (skeleton) (P)
- Pickerel (T)
- Porcupine fish (D)
- Salmon (life history) (P)
- Sea Horse
- Toy fishes
- Trout (Rainbow) (T)

Amphibians

- Chart

- Frog (toy)
- Grass frog (life history) (P)
- Grass frog (skeleton)
- Spring Peepers Biorama

Reptiles

- Alligator Skin-United States
- Alligator (toy)
- Chart

Lizards

- American Chameleon
- Iguana (T) (M)
- Limbless (T)
- Lizard Skin (Argentina)
- Skin (India)

Snakes

- Poisonous Snakes (C)
- Rattlesnake (cast)
- Rattlesnake (T)
- Skeleton (non-poisonous) (P)
- Skeleton (Rattlesnake jaw)
- Skin (Boa constrictor-South America)
- Skin (Diamond python-India)
- Skin (Water snake)
- Young Broad-banded (P)
- Young Water snake (plastic embedded)

Teacher Resource Package

- Snakes: includes Zoo Books

Turtles

- Box turtle (T)
- Land (T)
- Life history (P)
- Sea (Hawksbill) (M)
- Shell (Box turtle)
- Shell (Snapper turtle)

- Shell (Wood turtle)
- Toy turtle (puppet)

Teacher Resource Packets

- Turtles: includes Zoo Book

Birds (all taxidermy unless noted)

- Blackbird (Red Winged)
- Bluebird
- Bluejay
- Bob-White
- Canary
- Cardinal
- Chat (Yellow-breasted)
- Chicken Skeleton
- Crow
- Cuckoo
- Dove (Mourning)
- Eagle (Bald)
- Eagle & Eaglet (toy)
- Flicker (Yellow Shafted)
- Goldfinch (American)
- Grackle (Purple)
- Grebe-Horned (male in winter plumage)
- Grouse (Ruffed)
- Grouse (Prairie Chicken)
- Guinea pig
- Gull (Bonaparte)

Hawks

- American Rough-legged Hawk
- Broad winged Hawk
- Sparrow Hawk

- Hummingbird (Brazilian Wood Nymph)
- Jacamar (South America)
- Junco (Slate-colored)
- Kingfisher (Eastern Belted)
- Kinglet (Golden crown)

- Loon
- Manakin (South America)
- Meadowlark
- Merganser
- Mockingbird (Eastern)
- Night Jar-Chuck Willis
- Oriole (Baltimore)
- Oriole (Orchard)
- Ovenbird

Owls

- Barn Owl
- Barred Owl
- Great Horned Owl
- Long-eared Owl
- Saw-whet Owl
- Screech Owl

- Parrot's egg (toy)
- Pheasant
- Pigeon
- Plover
- Rail (Virginia)
- Robin
- Sanderling
- Sandpiper
- Shrike
- Starling
- Swift (Chimney)
- Tanager (Scarlet)
- Thrush (Wood)
- Towhee
- Veery
- Vireo

Ducks

- Black (duckling)
- Bufflehead
- Golden-eye
- Lesser Scaup
- Mallard
- Old Squaw

- Redhead
- Shoveller
- Turnstone (Ruddy)
- Wood (duckling)

Warblers

- Baybreasted (male)
- Black and White
- Blackburnian (male)
- Hooded (male and female)
- Magnolia
- Waxwing (Bohemian)
- Woodcock

Charts

- Bird food

Nests

- Blackbird
- Blue Jay
- Cardinal
- Catbird
- Chat (Yellow breasted)
- Cuckoo (Yellow breasted)
- Dove Mourning
- Flycatcher (least)
- Goldfinch
- Grosbeak R.B.
- Hummingbird
- Hummingbird R.T.
- Kingbird
- Meadowlark
- Oriole (Baltimore)
- Ovenbird
- Redstart
- Robin
- Sparrow (Chipping)
- Sparrow (English)
- Sparrow (Savannah)
- Sparrow (Song)
- Swift (Chimney)
- Tanager (Scarlet)
- Thrasher Brown
- Thrush (Wood)

- Towhee
- Veery
- Vireo (Red eyed)
- Warbler (Yellow)
- Warbler C.S.
- Waxwing (Cedar)
- Yellow Throat

**Teacher Resource
Packets**

- Hummingbirds: includes video & Zoo Book

Mammals

- Armadillo (Outer Covering)
- Armadillo (T)
- Bat (Eastern Pipistrelle) (P)
- Bat (Little Brown) (T)
- Bear (head) (T)
- Bear cub (T)
- Beaver (Canada Diorama) (M)
- Camel- plaster (M)
- Chipmunk (T)
- Deer (fawn) (T)
- Deer (Zoo Book)
- Elephant woodcarving (Kenya) (M)
- Ermine (T)
- Fox (Red) (T)
- Groundhog (T)
- Horse (cast metal) (M)
- Monkey (T)
- Monkey Skull (Mangabay, Central Africa)
- Moose Diorama (Canada) (M)
- Mouse (Jumping) (T)
- Mouse (White foot) (T)
- Opossum (young) (T)
- Rabbit (Cottontail) (T)
- Rabbit (young)(T)

- Raccoon (T)
- Skunk (Brown) (T)
- Squirrel (Gray) (T)
- Squirrel (Red) (T)
- Wooden Giraffe (Kenya) (M)
- Woolly Mammoth Diorama (M)

Animal Parts

- Boar tusk (Hawaii)
- Cow horn
- Cow horn and Deer antler comparison
- Deer (lower jaw)
- Deer antlers
- Deer leg (Whitetail)
- Deer pelt
- Deer skull
- Elephant Tusk (Africa)
- Goats horns
- Lion skull
- Rabbit skin
- Rabbit skeleton (M)
- Sheep horn (Bighorn)
- Turtle skeleton (Red eared slider) (M)
- Whale tooth

**Teacher Resource
Packet**

- Elephants: includes Zoo Book
- Giraffes: includes Zoo Book
- Rhinos: includes Zoo Book
- Deer: includes Zoo Book

Toys

- Collie dog
- Cow & Calf
- Kangaroo & Joey
- Skunk (puppet)
- Whale & pup

Products

Sets

- Africa
- Brazil
- Central America - Sisal
- Central America
- China
- Columbia
- East Indies (Malay)
- Ecuador, Peru, Bolivia
- Japan
- Mexico
- Peru
- South America

Products From Different Places

- Abaca (Philippines)
- Bean (Royal Poinciana Tree; West Indies)
- Brazil nut (South America)
- Carob beans (Israel)
- Cinchona bark (South America)
- Cinnamon (Ceylon)
- Cloves & coriander (Madagascar)
- Coconut (Hawaii)
- Coconut (Oceania)
- Coconut (Florida)
- Coffee (Brazil)
- Copra (Indonesia)
- Copra (Philippines)
- Cork (Portugal)
- Cork (Spain)
- Flax Industry (Russia)
- Forest Products (Canada)
- Fur Chart (Canada)
- Hemp (Philippines)

- Indigo (Salvador)
- Ivory (Africa)
- Kapok Pods (Java - Indonesia)
- Lace Bark (West Indies)
- Leather (Alligator - Honduras)
- Leather (Anaconda snake-Argentina)
- Leather (Lizard - Brazil)
- Leather (Lizard - India)
- Leather (Lizard - South America)
- Leather (Mountain snake-Argentina)
- Leather (Snake - India)
- Leather (Water snake - Vietnam)
- Lentils (Armenia)
- Resins (Africa)
- Shells (Limpet - Philippines)
- Shells (Window - Philippines)
- Sugar cane & water buffalo (Philippines)
- Vegetable Ivory (Columbia)
- Vegetable Ivory (Ecuador)
- Vegetable Ivory (Panama)
- Wood (Logwood - Honduras)
- Wood (Quebracho; Argentina)
- Wood (Valso - South America)
- Woods (Guyana)
- Wool (Scotland)

Other Products

- Balsa Wood
- Coconut

- Cotton
- Cotton Exhibit
- Flax
- Leather (shark)
- Silk (raw)
- Silk Process
- Wood (Greenhart)
- Wood Exhibit

ANTHROPOLOGY

Prehistoric Man

Habitations

- Cave Dwelling
- Lake Dwelling

Charts

- Age of Metal
- Art of Cro-Magnon
- Culture of the Lake Dwellers

- Tools of the Stone Age

Ceremonial Objects

- Carving
- Idol

Household utensils

- Mortar and Pestle
- Pottery

HUMAN BIOLOGY

ANATOMY

- Human head and neck (M)
- Human thoracic organs
- Human torso (M)
- Meiosis (M)
- Mitosis (M)
- Periodontal Disease
- Tooth Decay

Circulatory System

- Chart
- Human heart (M)

Digestive System

- Chart

Endocrine System

- Chart

Nervous System

- Charts about the Systems (circulatory, digestive,, nervous, and respiratory)

- Charts - 5 Senses

- Human Brain (M)

- Human Ear (M)

- Human Eye (M)

Reproductive System

- Cell to Embryo

Respiratory System

- Chart

- Lung (diseased and normal) (M)

Skeletal System

- Elbow joint

- Foot

- Hand

- Human Jaw (M)

- Human Muscle (M)

- Human Skeleton

- Human Skull (M)

- Human Skull (Cross - section)

- Knee - Joint

- Skeleton and Muscles (C)

Urinary System

- Kidney and Adrenal

HEALTH & NUTRITION

- Drug Abuse (C)

- Smoking (C)

- Vitamins (C)

Nutrition

- Corn (toy)

- Egg (toy)

- Fruit and Vegetables Set

- Nutrition Set

- Orange (toy)

- Peas in a pod (toy)