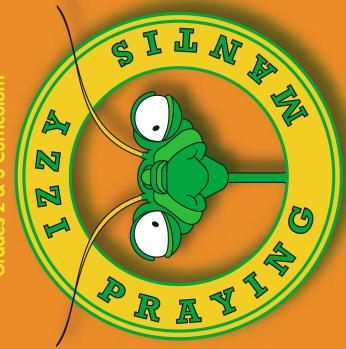
INTEGRATED PEST MANAGEMENT Grades 2 & 3 Curriculum



Animal Babies and Adults Insect Babies and Adults Picture Card Sets



Photo By Mike Bender, images.fws.gov

Black Bear

A mother bear is a **sow**; the father is a **boar.** The young, called **cubs**, stay with the mom about 17 months prior to setting off on their own.

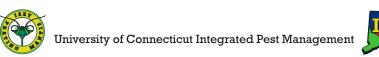






Photo By R.I. Bridges, images.fws.gov

Black Bear Cub

A mother bear is a **sow**; the father is a **boar**. The young, called **cubs**, stay with the mom about 17 months prior to setting off on their own.

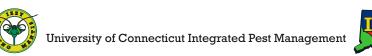






Photo By U.S. Fish and Wildlife Service, images.fws.gov

Sea Otter

A baby otter is called a **pup**. A group of otters makes up a raft!







Photo By Richard Bucich

Sea Otter Pup

A baby otter is called a **pup**. A group of otters makes up a raft!







Photo By Bauer, Erwin and Peggy, images.fws.gov

Duck

Baby **ducklings** call daddy **drake** and mom **duck!** They hatch from eggs and learn to survive by following mom's example.

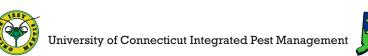






Photo By Larry Smith, images.fws.gov

Duckling

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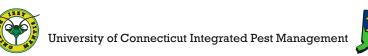






Photo By Dave Menke, images.fws.gov

Bald Eagle

Mom is bigger than dad, and both share the responsibilities of parenthood. The nursery nest is 7 to 8 feet across and usually contains 1 to 3 eggs called a clutch. The **fledging** eaglets stay in the nest until they are ready to fly.







Photo By Donna Dewhurst, images.fws.gov

Fledging Eaglet

Mom is bigger than dad, and both share the responsibilities of parenthood. The nursery nest is 7 to 8 feet across and usually contains 1 to 3 eggs called a clutch. The **fledging eaglets** stay in the nest until they are ready to fly.







Photo By Jesse Achtenberg, images.fws.gov

Bison

They may not look like dairy cows, but bison belong to the same group called bovines. Therefore, dads are **bulls**, moms are **cows** and the little ones are **calves**.







Photo By Ralph Town, images.fws.gov

Bison Calf

They may not look like dairy cows, but bison belong to the same group called bovines. Therefore, dads are **bulls**, moms are **cows** and the little ones are **calves**.







Photo By R. Tuck, images.fws.gov

Bullfrog

Bullfrogs are dads and have a much deeper voice than mom. The offspring of frogs start off as eggs, become legless **pollywogs** and then **tadpoles** which develop legs, but still must live in water. When they lose their tails and can breathe on land they are called frogs.







Photo By Ron Altig, fwie.fw.vt.edu

Pollywog/Tadpole

Bullfrogs are dads and have a much deeper voice than mom. The offspring of frogs start off as eggs, become legless **pollywogs** and then **tadpoles** which develop legs, but still must live in water. When they lose their tails and can breathe on land they are called frogs.







Photo By Luther C. Goldman, images.fws.gov

Snake

Mama snake lays eggs from which baby snakes, who look like tiny versions of her, emerge.







Photo By LaVonda Walton, images.fws.gov

Snake Baby

Mama snake lays eggs from which baby snakes, who look like tiny versions of her, emerge.







Photo By William W. Hartley, images.fws.gov

Salmon

Each spring, Atlantic salmon hatch from pea sized orange eggs laid the previous autumn in fresh water rivers. The newly hatched **alevin** stay hidden in their nest buried in the riverbed until they develop enough to wiggle up through the sand and gravel to feed on microscopic aquatic life. At this point the **fry**, infant salmon, look more like minnows than their parents. It will take them 2 to 6 more years and 2 more growth stages to fully develop.

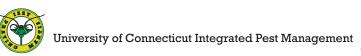






Photo By Roger Peters, images.fws.gov

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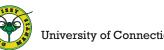






Photo By U.S. Fish and Wildlife Service, images.fws.gov

Swan

Dad, a **cobb**, and mom, a **pen**, stay together throughout their lives. Their offspring, **cygnets**, are beautiful only in their eyes, but they do grow into the graceful long necked birds that glide around our tidal waters.







Photo By WKB, images.fws.gov

Swan Cygnet

Dad, a **cobb**, and mom, a **pen**, stay together throughout their lives. Their offspring, **cygnets**, are beautiful only in their eyes, but they do grow into the graceful long necked birds that glide around our tidal waters.







Photo By University of Illinois/James Appleby, images.fws.gov

Beetle

Like all true insects, beetles go through 4 stages of metamorphosis; egg, larva, pupa and adult. The animal that emerges from the egg does not resemble its parents and must go through distinct changes in growth and structure prior to assuming its adult form.







Photo By Dave Powell, USDA Forest Service, www.forestryimages.org

Beetle Larva

Like all true insects, beetles go through 4 stages of metamorphosis; **egg**, **larva**, **pupa** and **adult**. The animal that emerges from the egg does not resemble its parents and must go through distinct changes in growth and structure prior to assuming its adult form.







Photo By Glen Smart, images.fws.gov

Butterfly

Mom and dad look nothing like their newly hatched offspring! This is because butterflies go through 4 distinct phases in their life time. When they hatch from eggs, they are larva. We recognize them as caterpillars. When they go into their resting phase, they are called pupa. During this phase changes both inside and out result in adult butterflies.







Photo By S. Ron Singer, images.fws.gov

Butterfly Caterpillar

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Photo By Joseph Berger, www.forestryimages.org

House Fly

Believe it or not those hairy flying insects you find annoying are the parents of those white wormy things you may have seen in the bottom of a garbage pail or on the body of a dead animal! Flies go through 4 stages of metamorphosis. Adult females lay **eggs** on decaying plant and animal matter where they hatch into the **larvae** called maggots. They go into a resting phase called **pupae** and emerge as **adult** flies with 2 wings rather than the 4 common to most insects. The entire cycle takes 7 to 10 days.

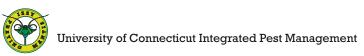






Photo By Lance S. Risley, William Paterson University, www.forestryimages.org

House Fly Maggot

Believe it or not those hairy flying insects you find annoying are the parents of those white wormy things you may have seen in the bottom of a garbage pail or on the body of a dead animal! Flies go through 4 stages of metamorphosis. Adult females lay **eggs** on decaying plant and animal matter where they hatch into the **larvae** called maggots. They go into a resting phase called **pupae** and emerge as **adult** flies with 2 wings rather than the 4 common to most insects. The entire cycle takes 7 to 10 days.







Photo By Scott Bauer, USDA ARS, www.forestryimages.org

Honeybee

Bees are social insects that live together in hives. Each bee has a job which helps the hive survive. Only one female bee, the **queen**, lays all the eggs! All the other females are **worker bees**. Depending on their age, they either gather food, clean the hive, care for the immature bees, build new nursery cells, protect the hive or keep it cool! Male bees are **drones**. Their sole purpose is to mate with the queen.







Photo By Carl Dennis, Auburn University, www.forestryimages.org

Honeybee Larva

Bees are social insects that live together in hives. Each bee has a job which helps the hive survive. Only one female bee, the **queen**, lays all the eggs! All the other females are **worker bees**. Depending on their age, they either gather food, clean the hive, care for the immature bees, build new nursery cells, protect the hive or keep it cool! Male bees are **drones**. Their sole purpose is to mate with the queen.

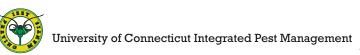






Photo By Susan Ellis, www.forestryimages.org

Mosquito

Dads are vegetarian, but mom needs the protein in blood to produce her eggs. She lays an egg mass of 50 to 400 on the surface of still puddles and ponds where they hatch into larvae in 1 or 2 days. As they feed on microscopic organisms in the water over the next 7 to 10 days, these wingless larvae grow and molt several times. They then go into the pupa phase during which time they float on the surface of the water but do not feed. At the end of a few days an adult mosquito emerges, and after taking a few minutes to let its wings dry, takes off to find a mate.







Photo By Jim Occi, BugPics, www.forestryimages.org

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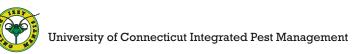






Photo By Whitney Cranshaw, Colorado State University, www.forestryimages.org

Grasshopper

Grasshopper babies, unlike most insects, look like mom and dad in miniature as soon as they emerge from their eggs. They have only three stages: **egg**, **nymph** and **adult**. Nymphs molt (shed their exoskeletons) five times over 30 to 40 days to reach adult size.

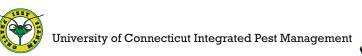






Photo By Whitney Cranshaw, Colorado State University, www.forestryimages.org

Grasshopper Nymph

Grasshopper babies, unlike most insects, look like mom and dad in miniature as soon as they emerge from their eggs. They have only three stages: egg, nymph and adult. Nymphs molt (shed their exoskeletons) five times over 30 to 40 days to reach adult size.





Contents

Animal Baby Picture Card Set **Bald Eagle Black Bear** Sea Offer Bullfrog Salmon Snake Swan **Bison**

Insect Baby Picture Card Set Grasshopper Honeybee **House Fly** Mosquito **Butterfly** Beetle

