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LIFE SCIENCE

生命科学

Life Cycles 生活馬期

CATHERINE STEPHENS (美) 著



外语教学与研究出版社 FOREIGN LANGUAGE TEACHING AND RESEARCH PRESS

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这套丛书秉承《国家地理》杂志图文并茂的特色,在书中配有大量精彩的图片,文字地道易懂、深入浅出,将科学性和趣味性完美结合,称得上是一套精致的小百科全书。特别值得一提的是本套丛书在提高青少年读者英语阅读能力的同时,还注重培养他们的科学探索精神、动手能力、逻辑思维能力和沟通能力。

本套丛书既适合学生自学,又可用于课堂教学。丛书各个系列均配有一本教师用书,内容包括背景知识介绍、技能训练提示、评估测试、多项选择题及答案等详尽的教学指导,是对课堂教学的极好补充。



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LIFE SCIENCE

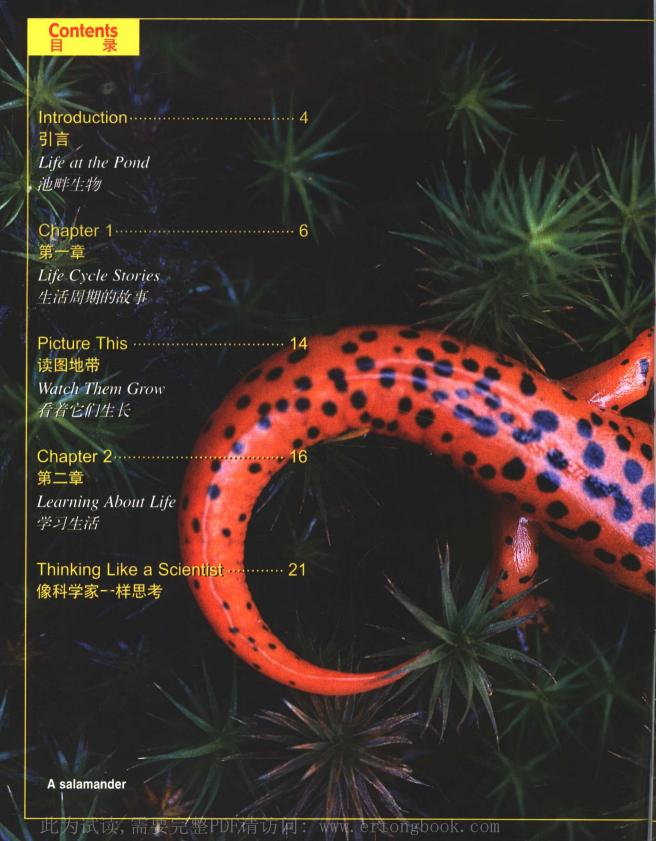
生命科学

Life Cycles 生活周期

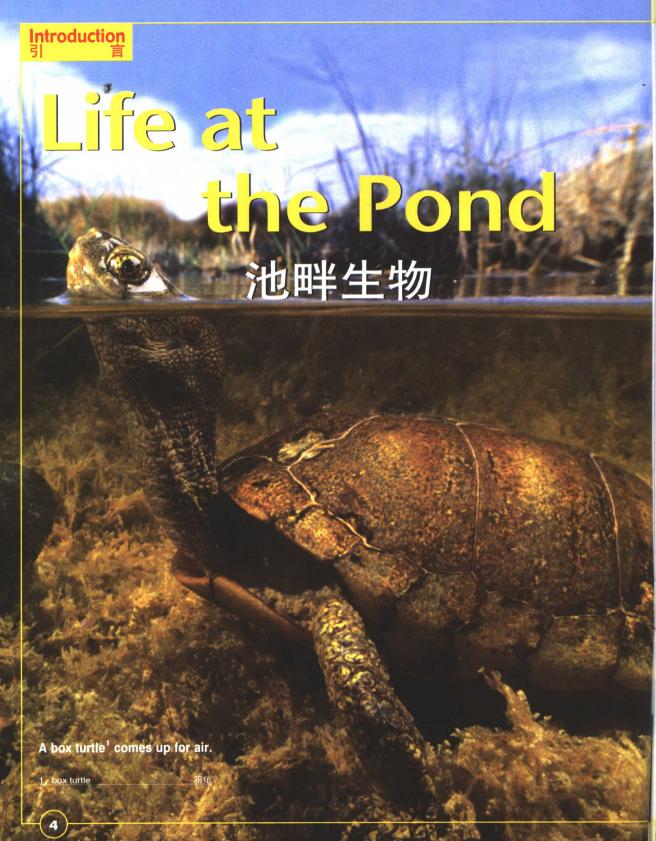
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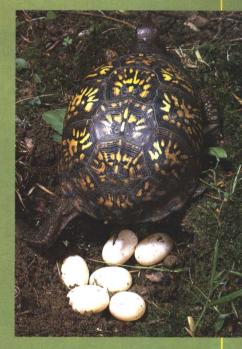




Listen carefully at the pond's edge. You'll hear the sounds of all sorts of animals. Birds sing, bees buzz¹, frogs splash², and crickets³ chirp⁴.

ear one end of the pond, a box turtle digs a nest⁵ in the sandy soil⁶. Scritch⁷, scratch⁸ . . . the mother turtle's back feet push at the sand. She makes a hole in the sand and lays her eggs. She'll cover them with sand. Then she will leave. Soon, the turtle hatchlings⁹ will scurry¹⁰ off toward the water. They'll join the birds, bees, crickets, fish, and other animals living at the pond.

Each kind of animal here—mammal¹¹, bird, fish, reptile¹², insect¹³, and amphibian¹⁴—is at a different stage¹⁵ in its life cycle. Maybe the animal is a baby. Perhaps it is a mother or father.



Eastern box turtle with her eggs

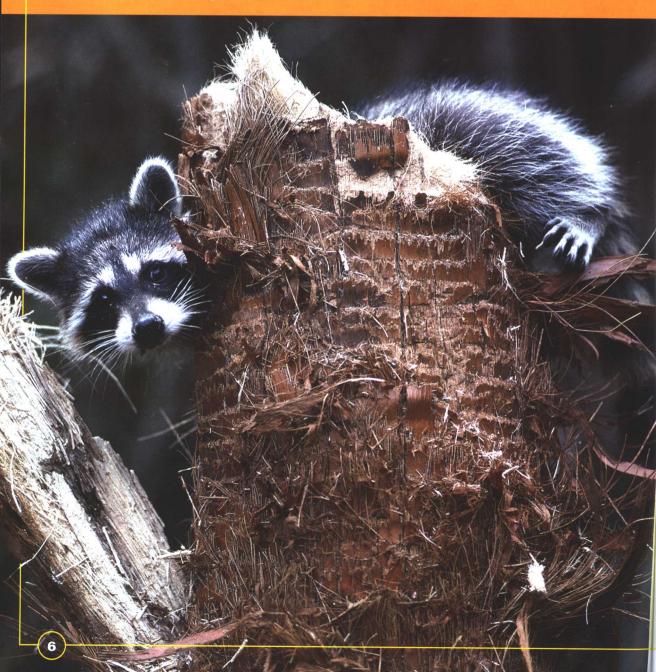
In this book, you'll read about how some animals begin life and how they develop. There is an amazing¹⁶ variety of life in the animal world. And each animal has its own life cycle story to tell.

1. buzz	火 发出嗡嗡声	9. hatchling	11.	孵出的一窝
2. splash	x	10. scurry	и	急赶
3. cricket	九 蟋蟀	11. mammal	-11.	哺乳动物
4. chirp	neo red out	12. reptile	n.	爬行动物
5. nest	2 第 六	13. insect	11.	昆虫: 虫
6. soil	n. 土壌	14. amphibian	12.	两栖动物
7. scritch	ν (=screech) 发出尖锐刺耳的声音	15. stage	71.	阶段: 时期
8. scratch	发刮擦声	16. amazing	adj.	惊人的



Life Cycle Stories

生活周期的故事



This raccoon¹ cub² runs, rolls, climbs, and climbs some more. It's growing and changing every day.

hen this raccoon cub was born, it couldn't see or hear. It was so small it could fit in your hand. It weighed only about 85 grams (about three ounces). That is less than the weight of a stick of butter. But look at the cub now! It has come a long way in a short time.

This raccoon will keep changing as it gets older. Like all animals, it will go through³ several stages in its life. Let's explore⁴ the stages of an animal's life cycle.

Life Begins

An animal's life begins as an egg. Some mother animals, including most mammals, keep their eggs inside their bodies. One or more of the eggs develop into baby animals. After the animals develop fully, they are born live. Humans are mammals. So are dogs. Usually humans have just one baby at a time. But dogs, cats, raccoons, and many other mammals have litters⁵ of several babies at a time.

1. raccoon	II.	浣熊
2. cub	И.	幼兽
3. go through		经历
4. explore	ν:	探究
5. litter	11.	一窝(仔畜)



Other animals, such as the turtles, do not keep their eggs within their bodies. Instead, they lay their eggs, and the babies develop inside the eggs. The babies hatch when they are fully developed. Many animals lay eggs. Penguins², frogs, snakes, and snails³ are a few examples. Can you think of other animals that lay eggs?

Growing and Changing

From the minute they're born, animals start to grow. They need many things in order to grow. Food, water, and oxygen⁴ are the basics. As they grow, animals get bigger and stronger. As this foal⁵ grows, its legs, tail, and mane⁶ will get longer.

A foal looks a lot like its mother, only smaller. But some baby animals don't look at all like their parents. A baby frog, called a tadpole⁷, looks like a fish.

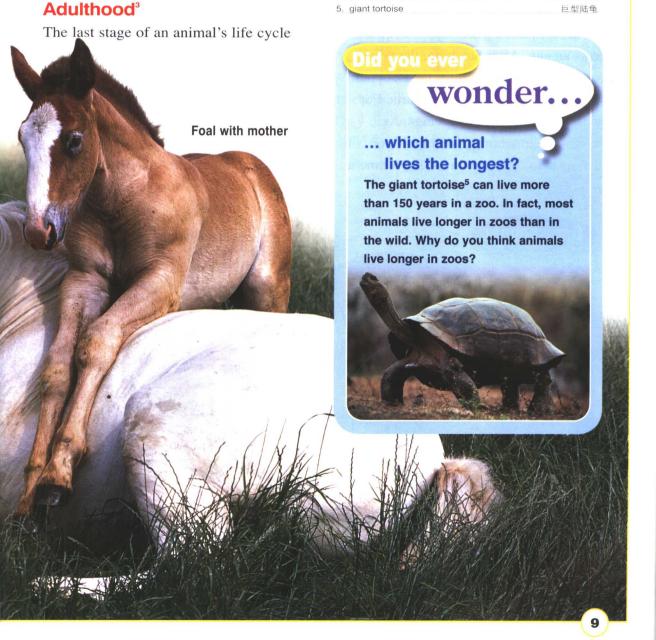


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A frog's life cycle is different from a mammal's. A frog's body changes as it gets older. This change is called a metamorphosis¹. Animals that go through a metamorphosis won't look like their parents until they are adults².

is adulthood. As adults, animals can reproduce⁴. This means that they can create babies of their own. These babies then start their own life cycles.

1.	metamorphosis	n.		变态
2.	adult	17.	成年动物,	成体
3.	adulthood	n,		成年
4.	reproduce	1:	繁殖:	生殖
5	giant tortoise		巨世	は、一角



The Life Cycle of a Grasshopper¹

Insects go through a metamorphosis as they grow. Some insects go through three life cycle stages. Dragonflies², crickets, and aphids³ are insects that have three stages of growth. So is the grasshopper.

life as an egg. After hatching, the young insect is called a nymph⁴. A grasshopper nymph is missing some body parts. For one thing, it doesn't have wings. As a nymph, a grasshopper will molt⁵, or shed⁶ its skin⁷, several times. Each time a

Like all animals, a grasshopper begins its

grasshopper molts, it grows a little larger and develops more of its body parts.

Finally the nymph becomes an adult⁸ insect. Now it has wings. It can fly! An adult female⁹ grasshopper can lay eggs. And the cycle can start all over again.

1. grasshopper	17.	蚱蜢,蝗虫
2. dragonfly	11.	蜻蜓
3. aphid	11.	蚜虫
4. nymph	11.	蚌
5. molt	1;	蜕皮
6. shed	F2	蜕(壳、皮等)
7. skin	П.	及
8. adult	adj.	充分长成的,成年的
9. female	adj.	雌的



The Life Cycle of a Butterfly

Most insects go through four stages in their life cycles. Let's take a look at the life of a butterfly. It grows and changes in four stages.

A butterfly begins its life as an egg. The butterfly egg shown below rests on a leaf of a milkweed¹ plant. The egg is about the size of the period at the end of this sentence. The picture has been magnified² many times.

After a few days, a caterpillar³ hatches from each egg. Then the caterpillar turns into an eating machine! First it eats its eggshell⁴, and then it eats the green leaves around it. The caterpillar eats and grows

until its skin is too tight. It molts, or sheds its skin, four or five times. Then it hangs from a branch⁵. A hard shell, or chrysalis⁶, forms around the caterpillar.

The caterpillar is now a pupa⁷. What is happening inside the chrysalis? The caterpillar's body is changing. Wings are growing. The pupa is becoming a butterfly.

When an adult butterfly crawls⁸ out of its chrysalis, its wings are soft and wet. They dry in the sun and air. Then the adult butterfly is ready to fly away.

1. m	lkweed	11.	马利筋
2. m	agnify	11	放大、扩大
3. ca	terpillar	11.	毛虫
4. eg	igshell	11.	卵外壳
5. br	anch	11.	树枝
6. ch	rysalis	11.	進出
7. pt	pa	11.	類
8. cr	awl	J. T.	他在一个



The Life Cycle of a Frog

Amphibians also go through a metamorphosis. The pictures show how a frog grows and changes.

In spring a mother frog lays lots of eggs in the cool water of a pond. Within a month the eggs hatch. Out come thousands of tiny tadpoles. A tadpole swims and eats through the summer. It begins to develop. Its tail grows shorter. If the froglet¹ lives in a climate² that has cold winters, it may dig a hole in the mud³. It sleeps in the mud until spring. Then it wakes up and continues its life cycle. Froglets living in warmer climates may complete their entire⁴ metamorphosis in one summer.

When the froglet's tail is gone, the frog is an adult. What a handsome amphibian! It's time to find a mate⁵ and begin the cycle of life all over again.



1. froglet	n.	小蛆
2. climate	<i>n</i> .	气候
3. mud	n.	泥: 泥浆
4. entire	adj.	全部的
5 mate	**	高二 4年

The Life Cycle of a Rabbit

Most mammals, as well as most birds and reptiles, do not go through a metamorphosis. Rabbits, for example, are born with all the body parts they will need as adults. They look a lot like their parents.

They are just smaller.

A rabbit develops inside its mother's body for about a month. Then it's born live as part of a litter of about five baby rabbits. A newborn¹ rabbit, or bunny², is quite helpless. It has no hair. Its eyes and ears are closed. In just a week, though, the bunny can see and hear, and it starts to grow hair.

In just two weeks, a bunny takes its first hops³ away from the nest. Two days later, it leaves the nest for good. It can take care of itself. It spends its time hiding from enemies and looking for food. A bunny eats all kinds of green plants.

Rabbits reach adulthood when they're about six months old. Now they can have their own babies.

1. newborn	adj.	新生的
2. bunny	11.	小兔子
3. hop	11.	跳跃





Watch Them Grow

看着它们生长

Baby animals change as they grow. If an animal goes through a metamorphosis, it changes a lot! Try to match each baby on the left with its mother on the right.

