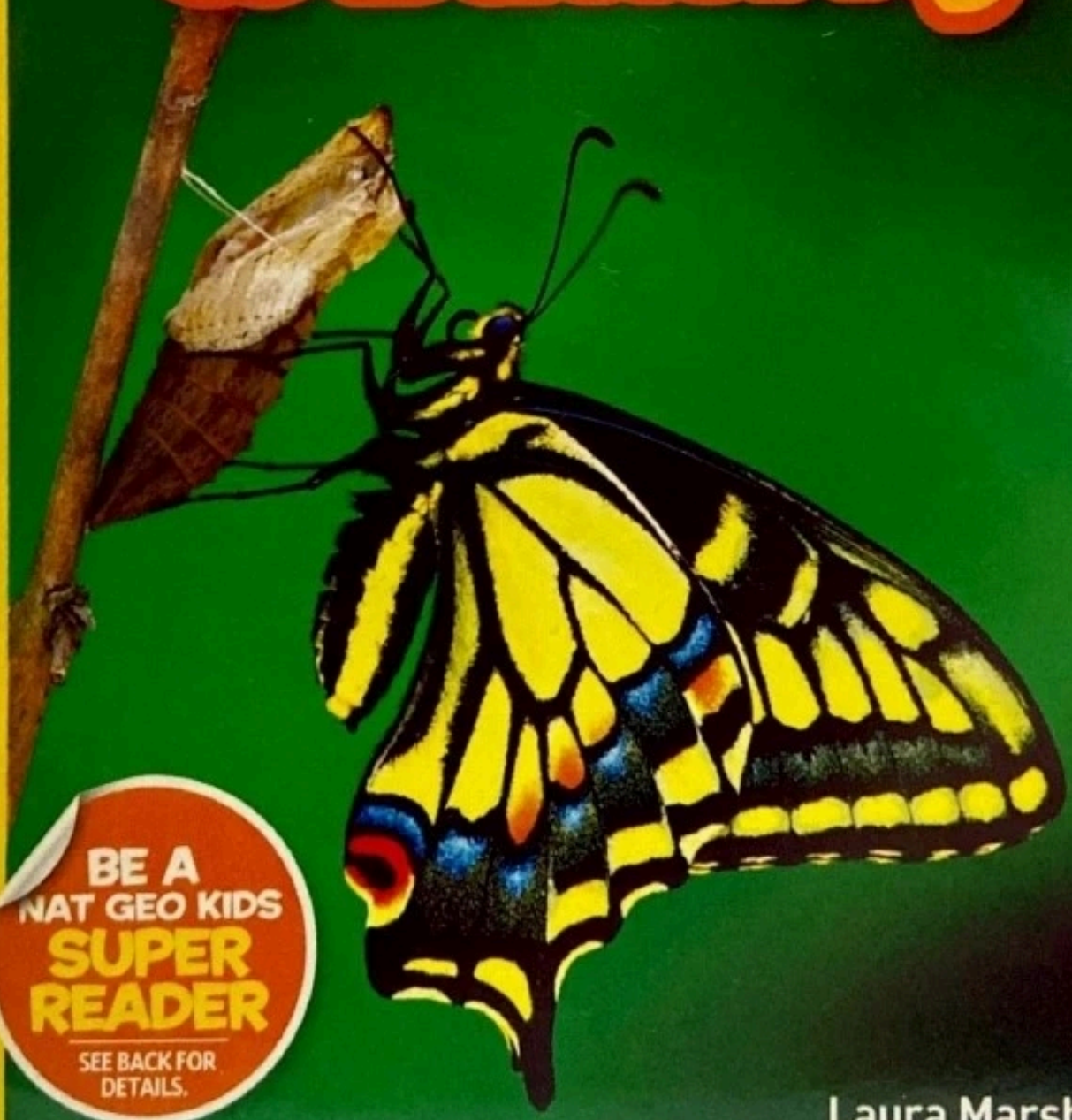
LEVEL 1

NATIONAL GEOGRAPHIC KIDS

Caterpillar to Butterfly



BE A NAT GEO KIDS SUPER READER

SEE BACK FOR DETAILS.

Laura Marsh

Echo英文绘本阅读

Riddle

What starts as an egg,



then walks on many legs,



and then
uses wings
to fly?

A butterfly!

Echo英文绘本阅读

Beautiful Butterflies

Butterflies are fun to watch. They fly with loops and dives. Some have bright colors. Some have bold patterns, too.





Q What do you call an insect that's running out of gas?

A A sputter-by butterfly!

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Four Stages

It's also fun to watch butterflies change. They change a lot in their short lives. In fact, there are four stages in a butterfly's life:





Echo英文绘本阅读

Stage 1 Egg

A mother butterfly lays many eggs on a leaf or branch. Each egg is close to food (caterpillar food, that is).



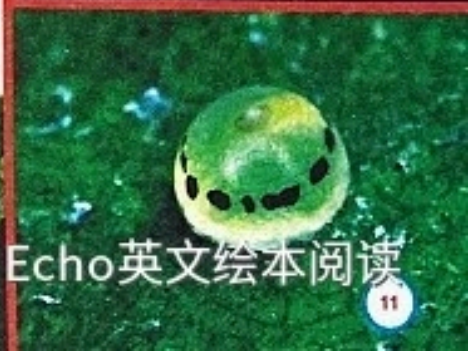
Malayan egg-fly butterfly



Butterfly eggs come in all different shapes.







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Stage 2 Caterpillar

The tiny caterpillar bites a hole in the egg. It crawls out. The caterpillar is very hungry.



The caterpillar eats its shell. Then it eats the leaf it's on. The caterpillar moves to another leaf. It eats that, too.



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The caterpillar grows and grows. It gets too big for its skin. It sheds its old skin like a snake.

Small white butterfly caterpillar

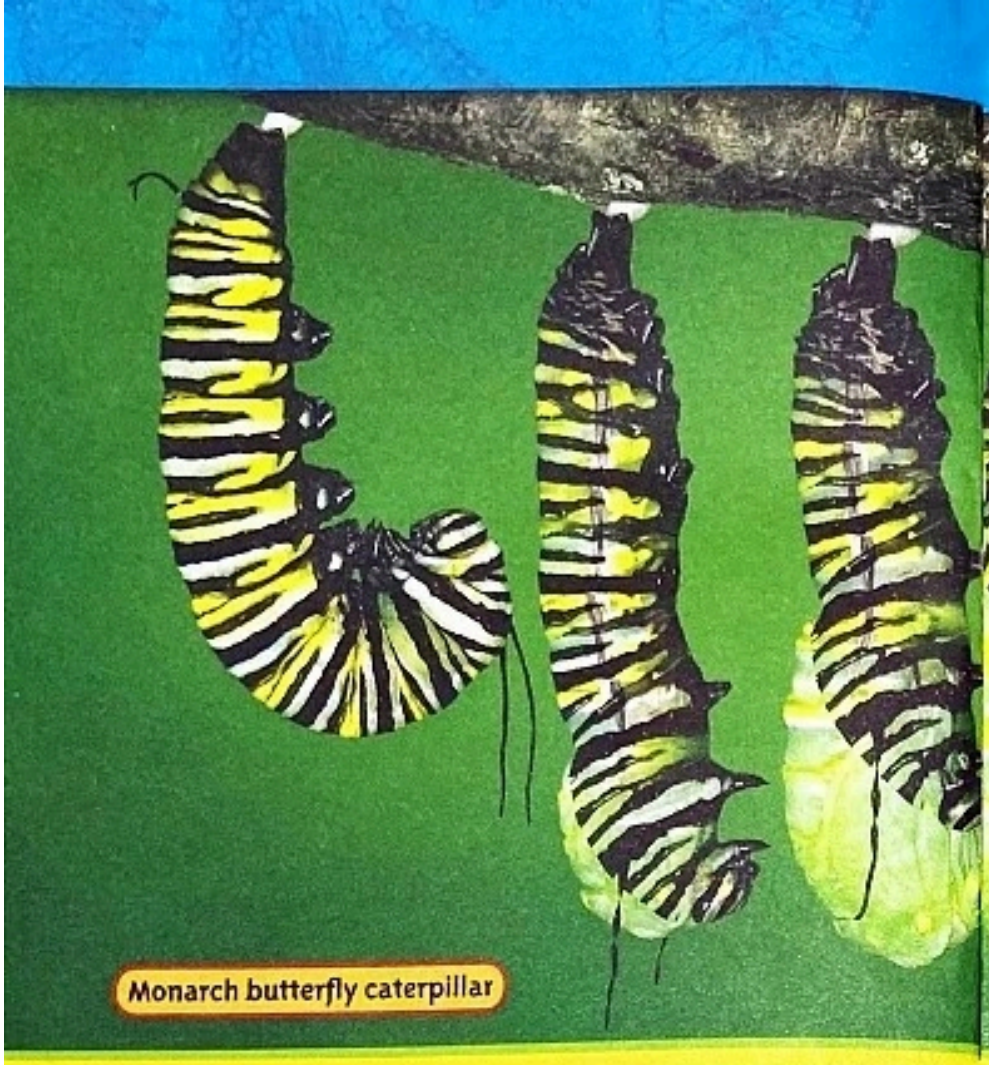
Q What's green and dangerous?

A A caterpillar with a bad temper!

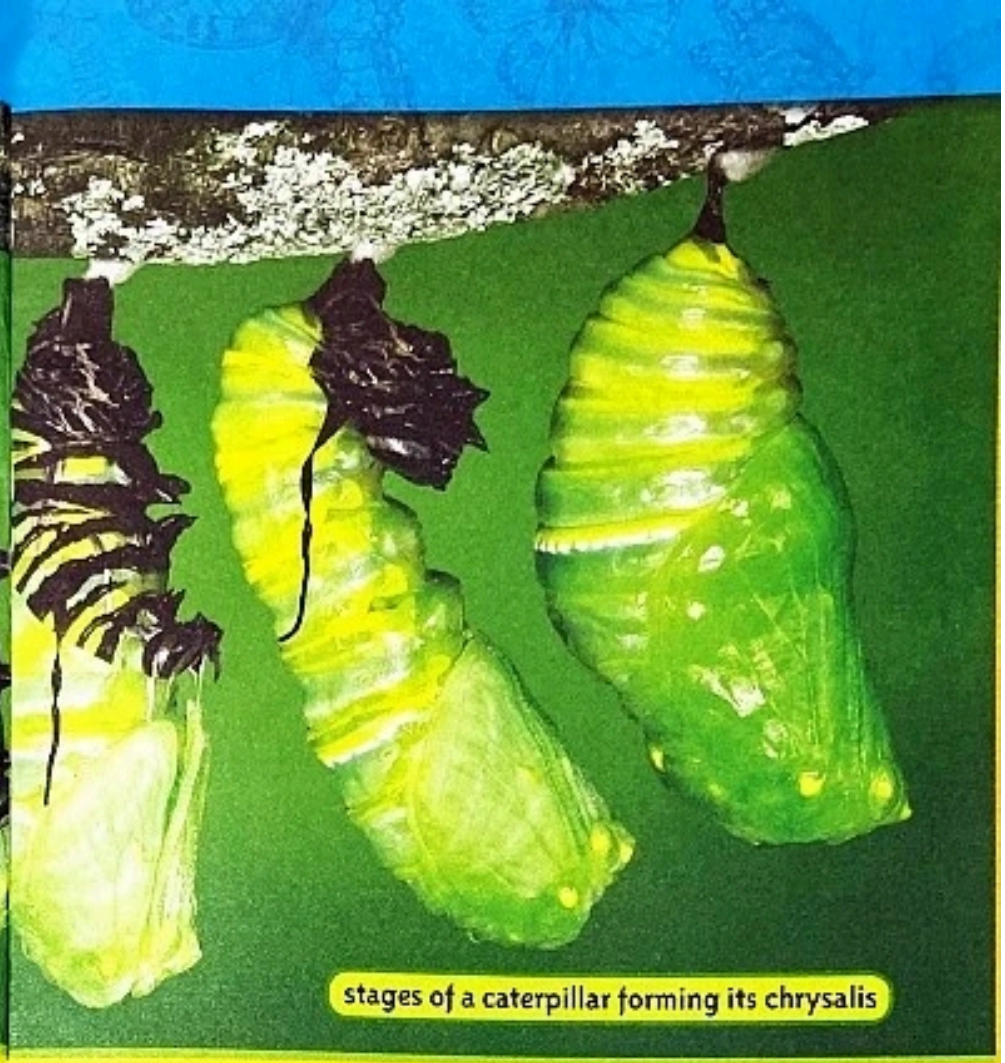


The new skin fits for a while. But then the caterpillar is too big for that skin, too. Caterpillars shed their skin four or five times.

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Monarch butterfly caterpillar



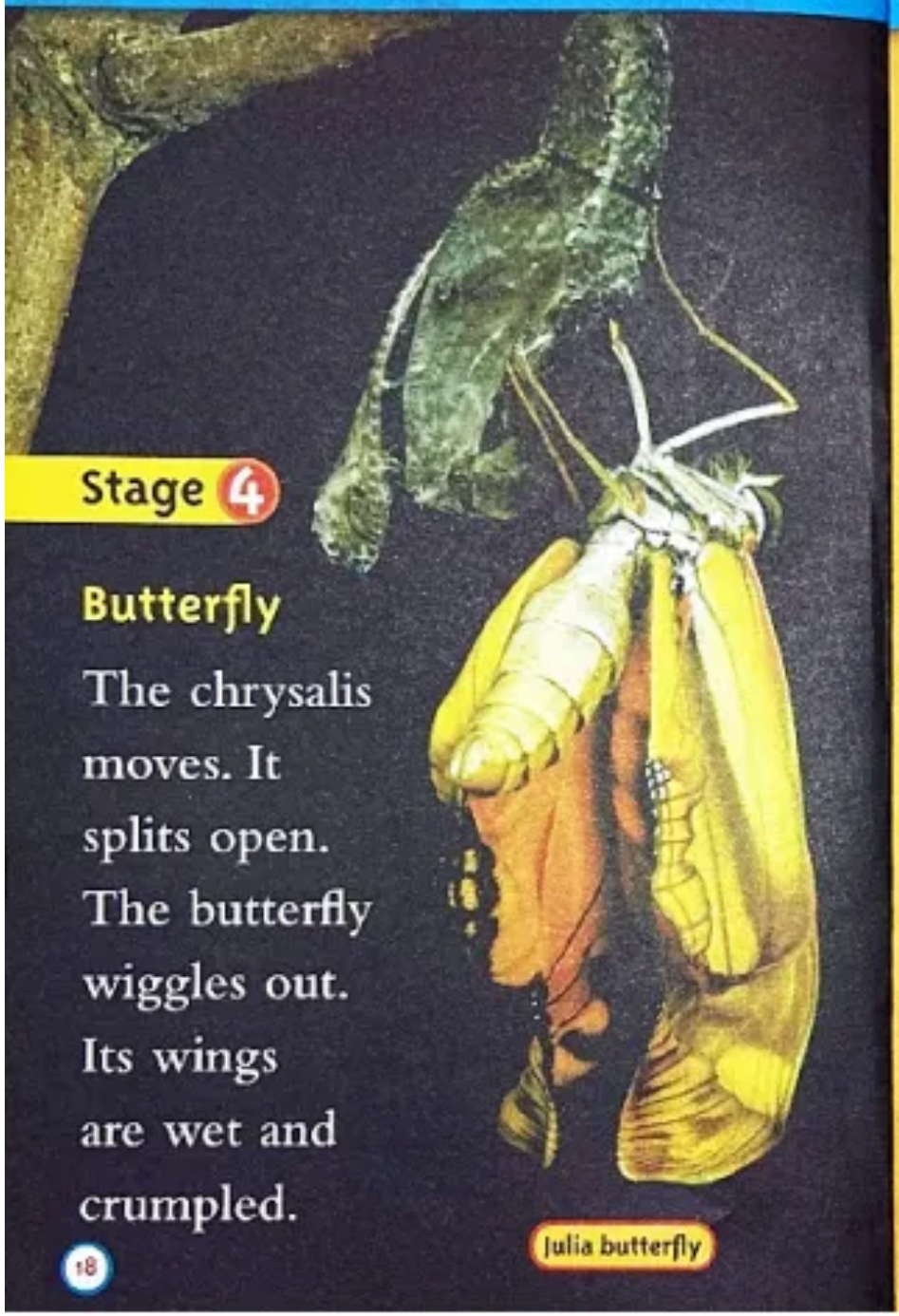
stages of a caterpillar forming its chrysalis

Stage 3 Chrysalis

By now the caterpillar is ready to rest. It hangs upside down. It sheds its skin one more time.

The new layer is called a chrysalis. It is a hard shell. Inside the caterpillar is changing. It stays in the chrysalis for ten to fourteen days.

Echo英文绘本阅读



Stage 4

Butterfly

The chrysalis moves. It splits open. The butterfly wiggles out. Its wings are wet and crumpled.

Julia butterfly

Q How are caterpillars and babies alike?

A They both creep and crawl!



Blood pumps into the butterfly's wings. They get bigger and harden. The wings dry. Now the butterfly is ready to fly.

Have a good trip, butterfly!

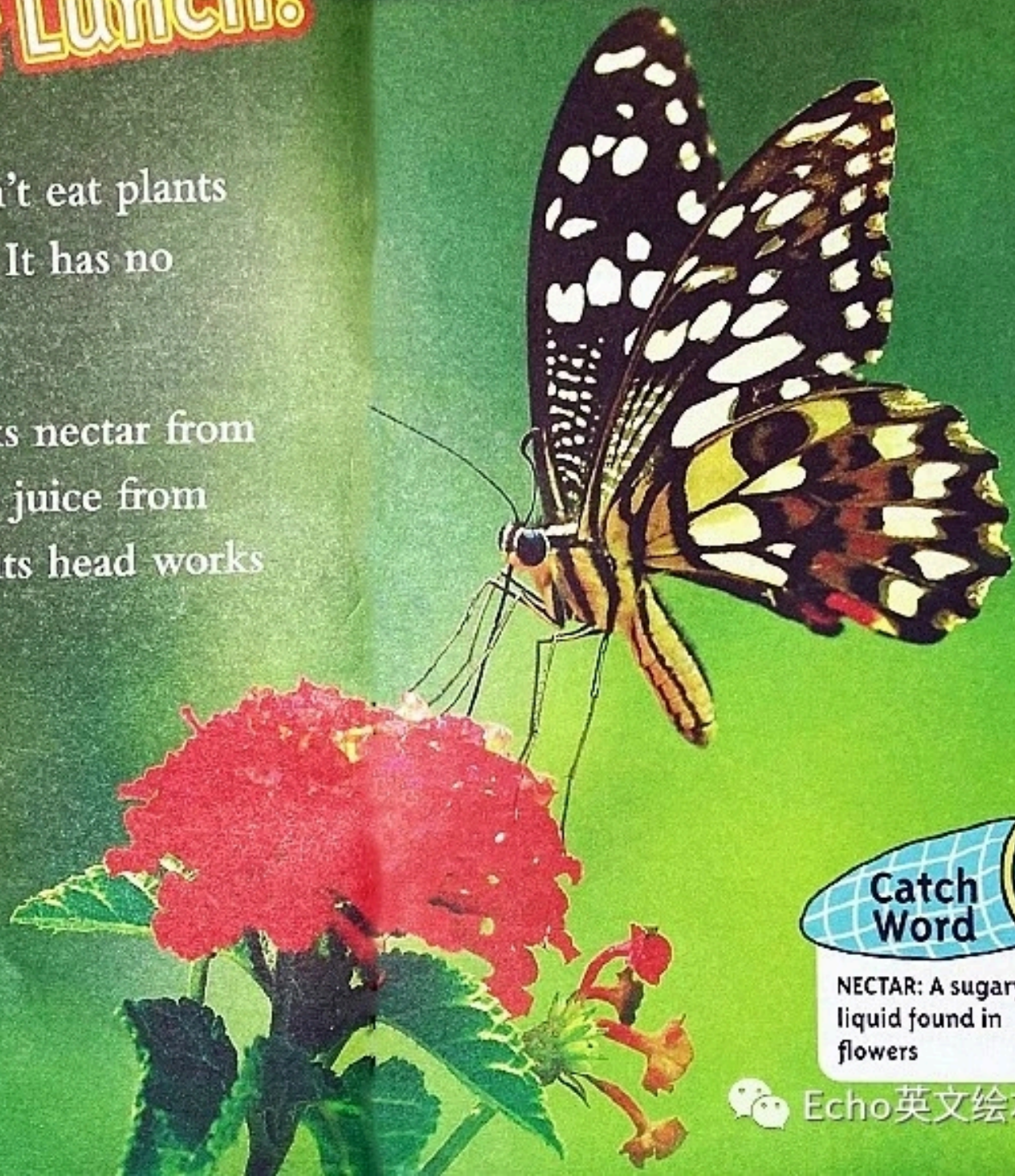
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Time for Lunch!

A butterfly doesn't eat plants like a caterpillar. It has no mouth.

A butterfly drinks nectar from flowers. It drinks juice from fruit. A tube on its head works like a straw.

Slurrrp!



Catch Word

NECTAR: A sugary liquid found in flowers

Echo英文绘本阅读

Cool Butterfly Facts

1



Butterfly wings are covered with tiny scales.

The world's smallest butterfly is the blue pygmy. It's the length of a pushpin from wing to wing.

2



3



Butterflies are found all over the world, except in Antarctica and the driest deserts.

4



There are about 17,000 kinds of butterflies in the world.

5



Butterflies taste with their feet! They have taste sensors there.

6



The world's largest butterfly is the Queen Alexandra birdwing. It's as long as a ruler from wing to wing.

Echo英文绘本阅读

Back off!

Caterpillars and butterflies are a tasty snack for predators. But they have tricks to keep predators away.

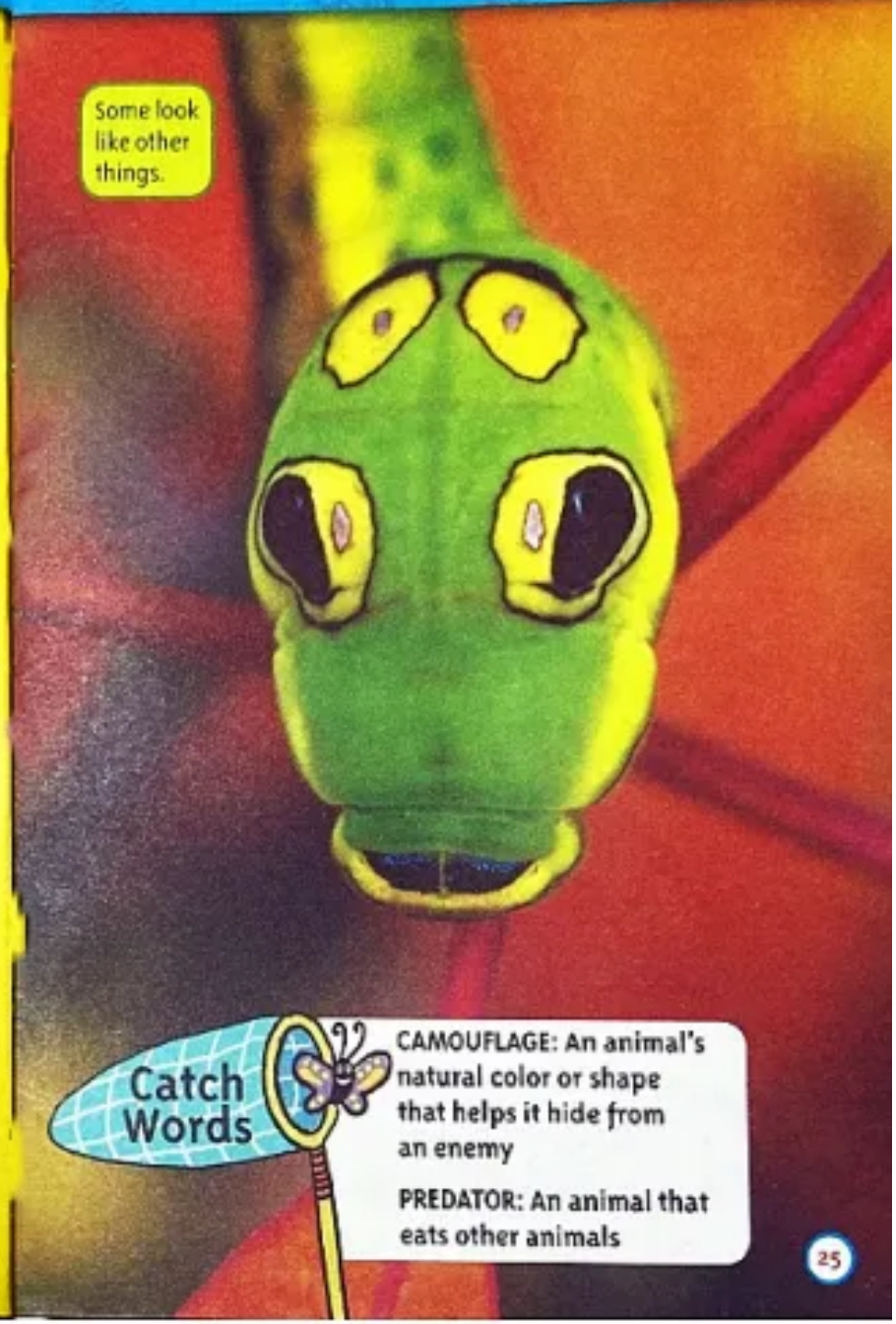


Some hide using camouflage.



Some can be deadly to eat.

Some look like other things.



Catch Words

CAMOUFLAGE: An animal's natural color or shape that helps it hide from an enemy

PREDATOR: An animal that eats other animals

Echo英文绘本阅读

Moth or Butterfly?

Q What's it called when a moth cries?

A Moth-bawl!

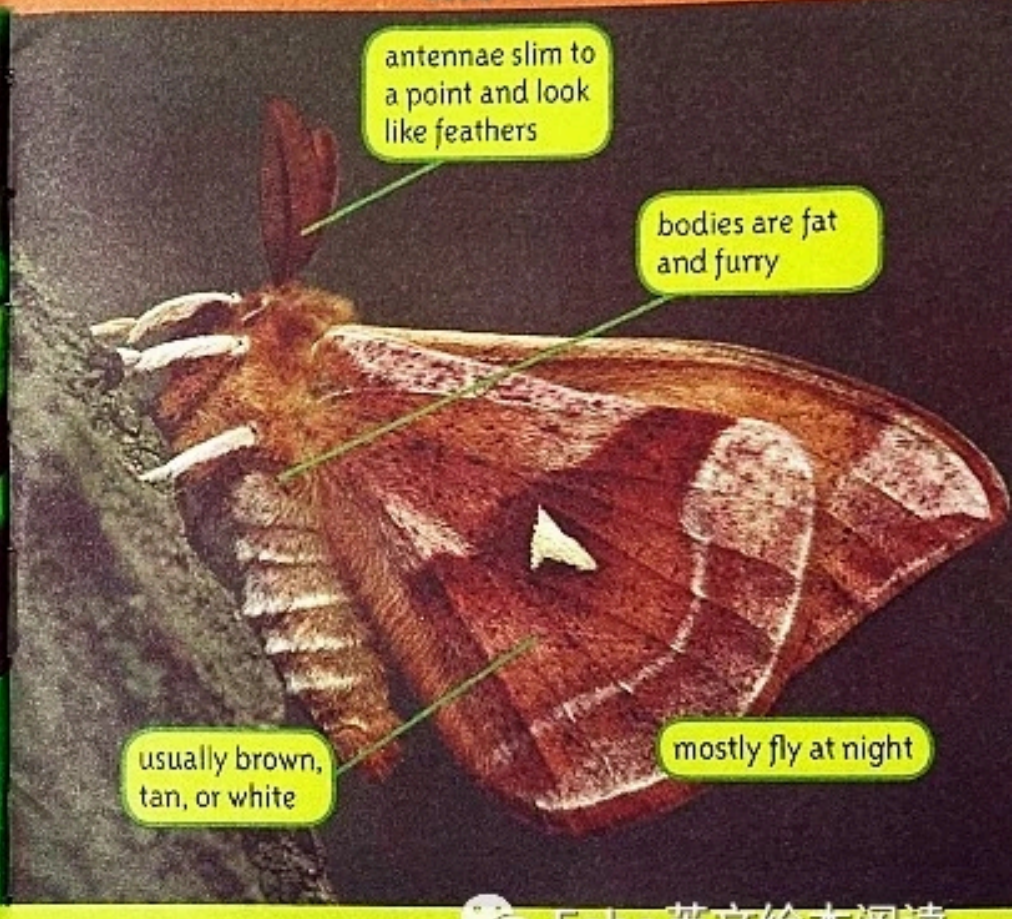
Moths and butterflies look alike.
Here's how you can tell them apart.

Butterfly



Say an-TEN-ay

Moth



Echo英文绘本阅读

Bring Butterflies to You

You can bring butterflies to your backyard. Make a butterfly garden! But first ask an adult for help.



Swallowtail butterfly

Here's what you'll need:

- ✓ plants that are local to your area
- ✓ plants that bloom at different times
- ✓ orange, purple, yellow, pink, and red flowers
- ✓ flowers that are clustered together
- ✓ flat-topped flowers
- ✓ a sunny spot for butterflies to rest, like a flat stone
- ✓ a wet or watery spot for butterflies to drink
- ✓ no chemicals (which can kill butterflies and caterpillars)

Echo英文绘本阅读

What in the World?

These pictures show close-up views of butterfly things. Use the hints below to figure out what's in the pictures. Answers on page 31.



HINT: A caterpillar starts here.



HINT: Big changes happen inside.

WORD BANK

caterpillar butterfly wing chrysalis egg antennae camouflage



HINT: It's an all-day eater!



HINT: This is covered with scales.



HINT: It uses this to hide from predators.



HINT: You won't find these on your head!

1. egg, 2. chrysalis, 3. caterpillar, 4. butterfly wing, 5. camouflage, 6. antennae

Echo英文绘本阅读