



STEMTot®

THE THREE LITTLE BIRDS MAKE NESTS

Making Shade



Kindergarten

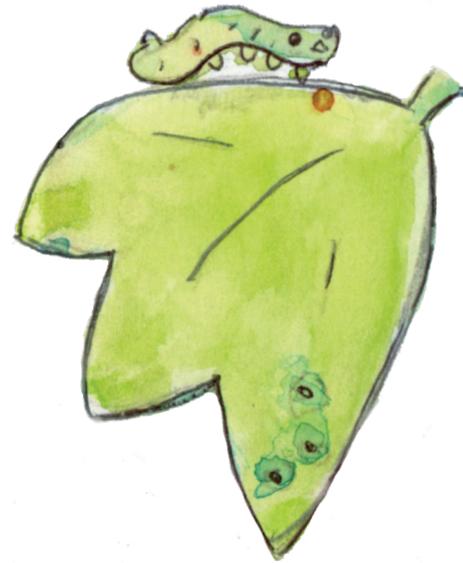
Student name:



STEMTot®

Next Generation Science

K-PS3-2 Energy: Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.



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Illustrated by Bella Hunter

Making Shade: The Three Little Birds Make Nests

Student Edition

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STEMtaught® Kindergarten
Next Generation Science (NGSS)

Energy K-PS3-2. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.

Illustrated by
Bella



Hi! I am from Bakersfield, California. I love climbing, ice hockey, snowboarding, being outdoors, playing musical instruments and, of course, drawing! I want to be an ornithologist (bird scientist) someday.



Written by
Jianing



Hi! I am international student from China. I like reading, writing, drawing, swimming and cooking. I think these things make my life colorful and refreshing. I want to study architecture and biology someday.



MEET THE THREE LITTLE BIRDS

The stars of the story!



Walter Weaver



Kelly Killdeer



Lara Lark



Weaver birds eat seeds and weave elaborate nests of grass which hang from branches.



The killdeer is a shorebird that feeds on insects. It builds its nest with pebbles and seashells.

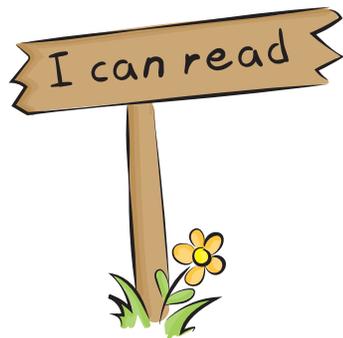


The meadow lark eats bugs, seeds and berries. It makes its ground nest in grassy areas. Sometimes it covers the nest with a roof woven from grass!



Hi, I'm Lara Lark!





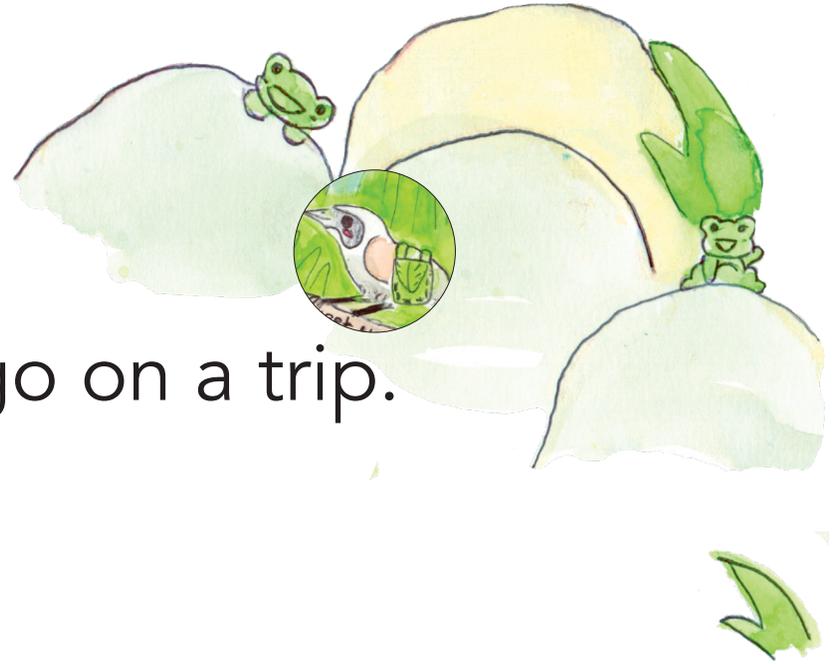
The birds are friends.



Read to me:

Once upon a time, there were three little birds. Their names were Lara Lark, Kelly Killdeer and Walter Weaver. They were best friends.





The birds go on a trip.

Read to me:

One day, they decided to leave their parents and go on a trip together to see the colorful world outside.

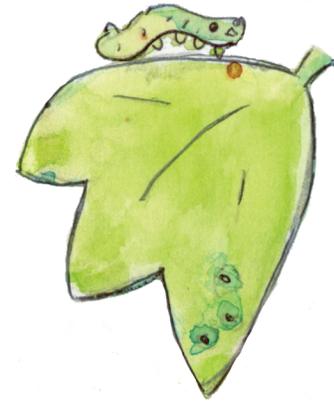


I see the life cycle of a butterfly!

Can you spot the bird's suitcases?



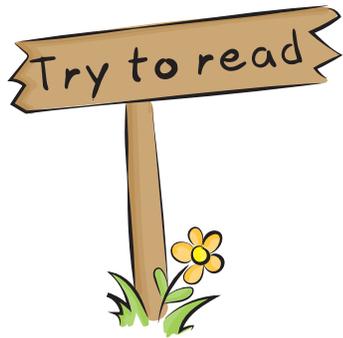
The birds play.



Read to me:

They roamed through fields and woods exploring and having fun. None were happier than these three little birds. They easily made friends with everyone they met.



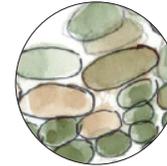


The birds need a nest.

Read to me:

Many of their friends were starting to build their homes and nests. The three little birds decided that they needed to make nests of their own to keep cool and comfortable.





This nest is made of stones.



Read to me:

Kelly Killdeer decided to build a stone nest on the ground.

"Stones are easy to find," she said. "It will only take me a day to build my nest and then I can play."

The frogs were worried and told her, "Your nest will not protect you from the hot sunlight."

Kelly didn't listen to them.





This nest is made of sticks.

Read to me:



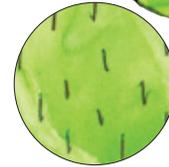
Lara Lark found a pond and decided to build her nest with some sticks.

The mice living in a nearby bush quietly told her the nest wouldn't protect her from the hot sunlight.

'Those mice don't know what they are talking about,' thought Lara Lark. 'This is the perfect nest for me.'

Lara didn't listen to them.





This nest is made of grass.

Read to me:

Walter Weaver remembered what his parents taught him.

They said to him, "Always do your best".

So, Walter searched to find a cool forest with tall trees. Here, he would build his nest in the shade. While Walter worked to weave his grass nest, the other birds played.





It is in a tree.

Read to me:

Walter Weaver chose a strong branch to build his nest on. He searched for long blades of grass. He carefully wove his nest for five more days. Walter wove a roof for his nest and made a little hole to climb through. He made such a comfortable nest!







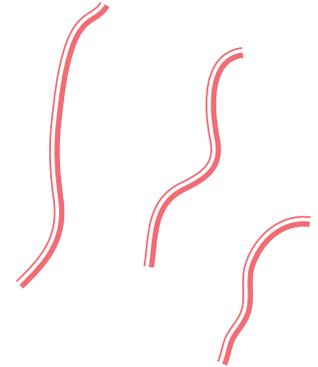
Oh, no!
The stone nest is hot!



Read to me:

When the birds were done building, they sat in their nests. When the Sun came up, Kelly Killdeer couldn't stay in her nest. In the warm sunlight, her stone nest heated up and burned her feathers!



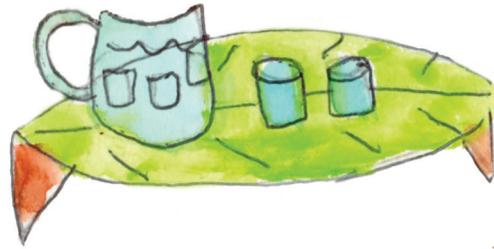
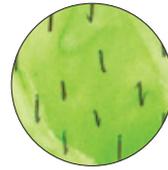
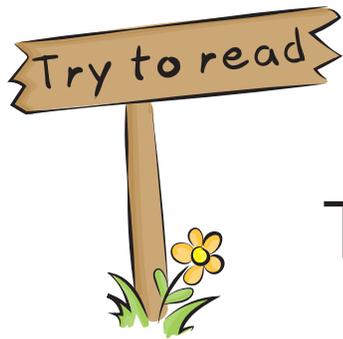


The stick nest is in the sun!
It is hot.

Read to me:

The shade did not cover Lara Lark's nest at all. As she sat in her nest, she had to squint her eyes in the bright sunlight. She was much too hot. She had to cool off in the water.





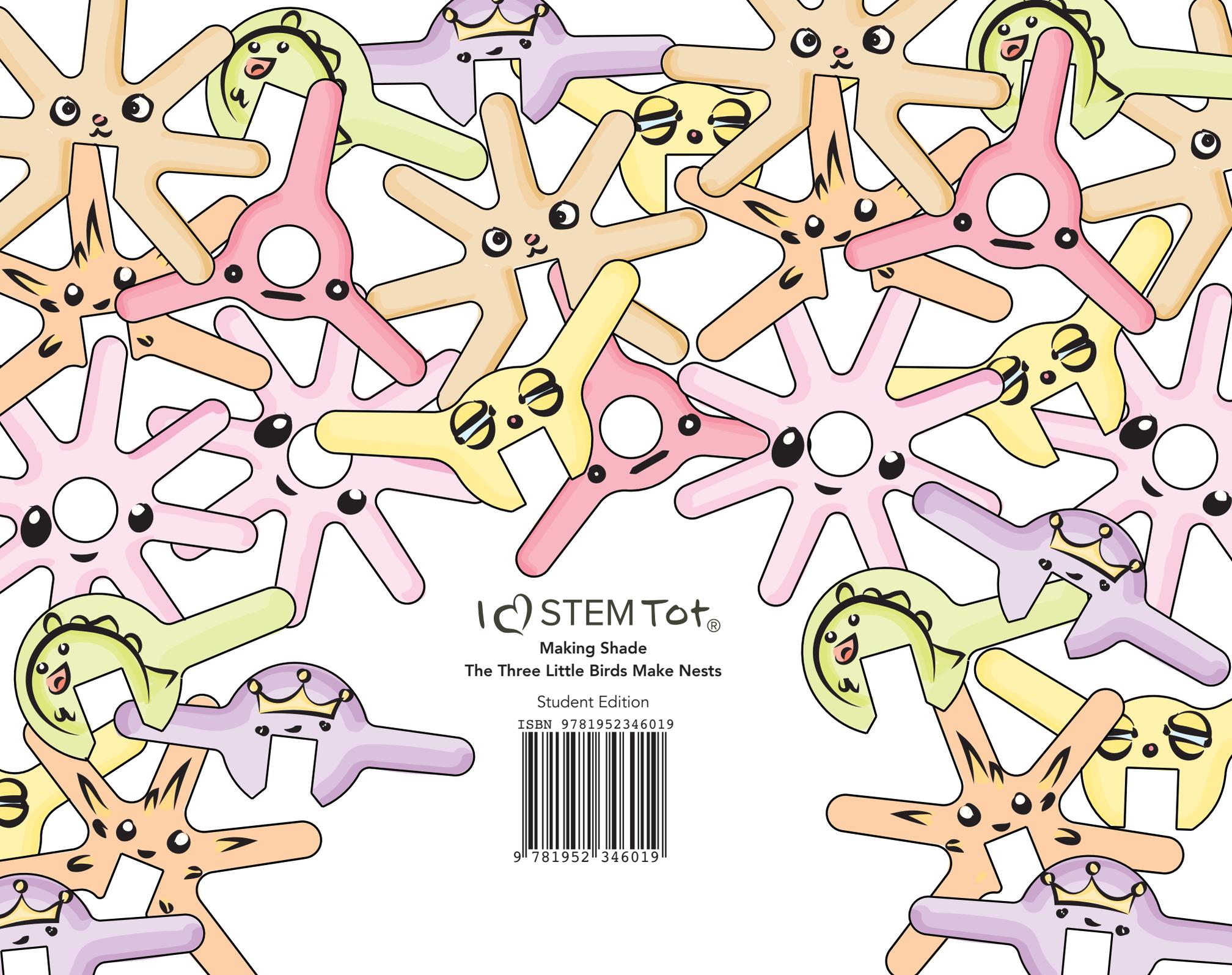
The birds like the grass nest!
It is not hot.

Read to me:

Out of all three nests, Walter Weaver's nest was the best. The leaves of the forest shaded it so it was always cool. After a visit to Walter's nest, Lara Lark and Kelly Killdeer realized how important it was to work hard to build a nest the right way.



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