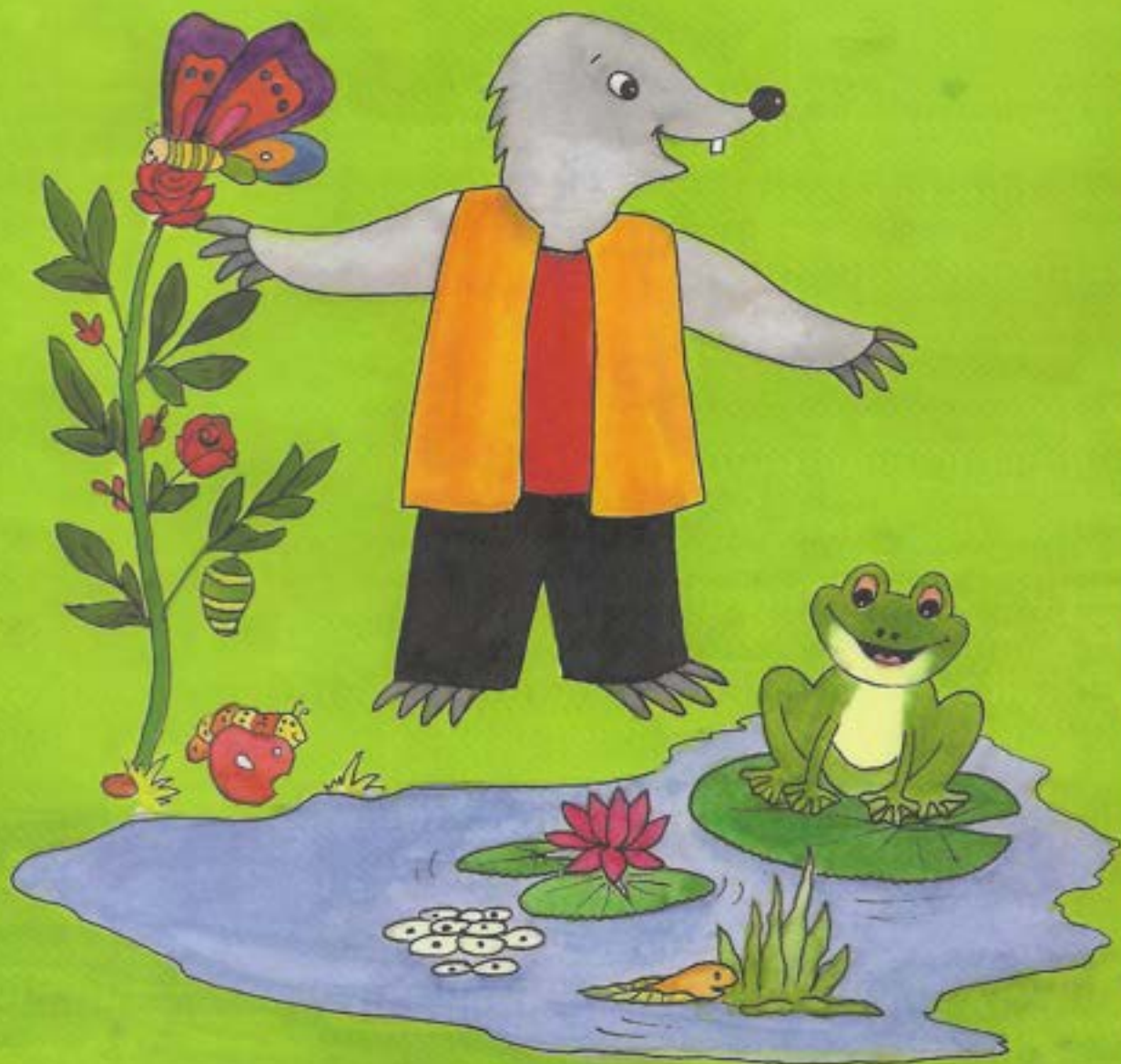




MOLE BOOKS: MOLE WITNESSES A MIRACLE IN NATURE & EXPLORE THE WORLD OF FROGS WITH MOLE

From the Second Series: The Little Scientist

Mole is a very good soul....In teaching children good thingsHe plays an important role!



ARMAAN J. SARNA

MOLE BOOKS: Mole Witnesses
a Miracle in Nature & Explore
the World of Frogs with Mole
From the Second Series: The Little Scientist

ARMAAN J. SARNA

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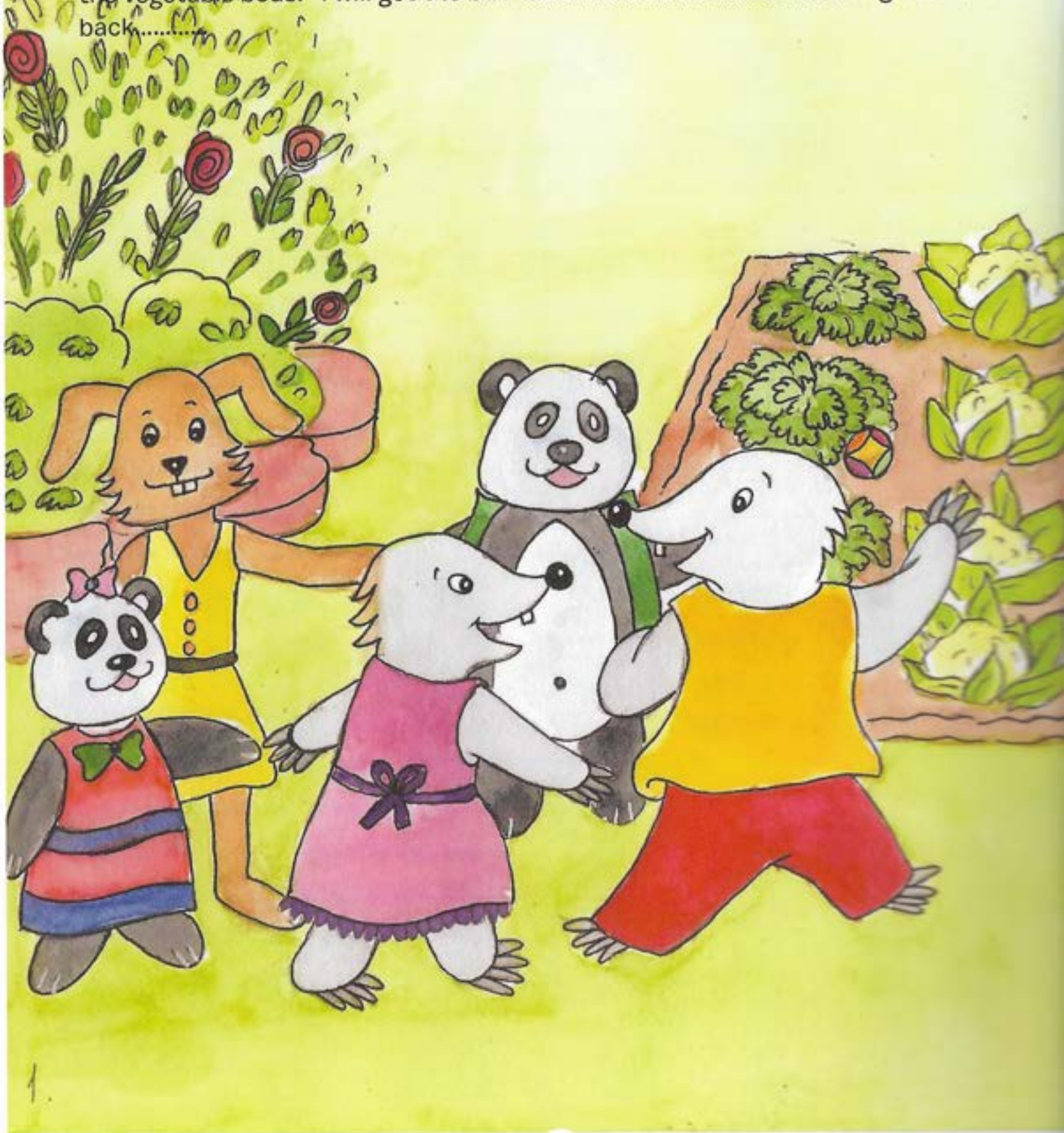
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MOLE BOOKS
FROM THE SECOND SERIES: THE LITTLE SCIENTIST
BOOK ONE

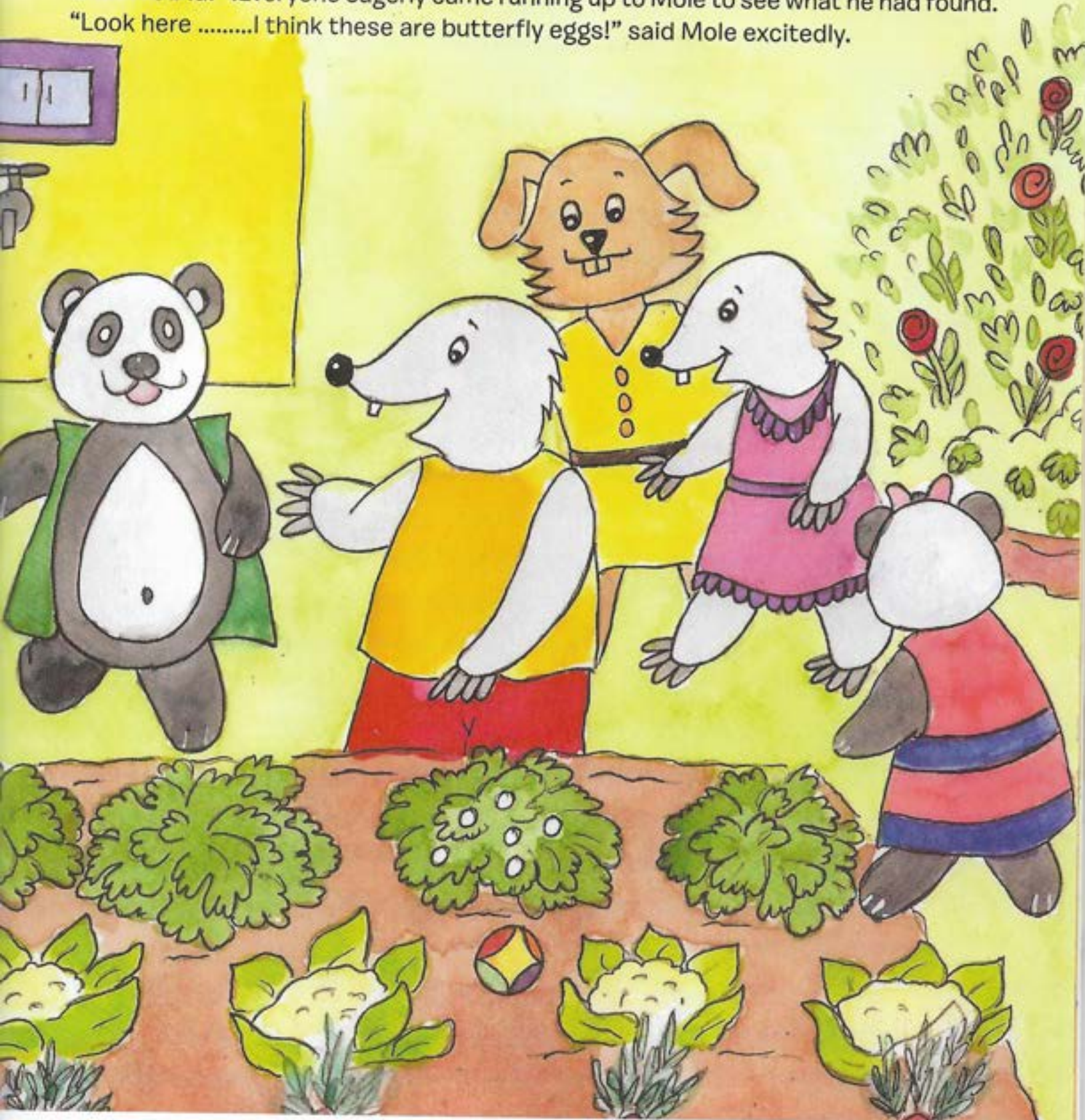
MOLE WITNESSES A MIRACLE IN NATURE



One beautiful sunny afternoon Mole and Molie were playing in their garden with their friends Mittens, Panda and Panda's baby sister Pandee. They were playing with a ball when it accidentally slipped into Mama Mole's vegetable garden and rolled into the vegetable beds. "I will get the ball" said Mole as he hurried to bring their ball back.....



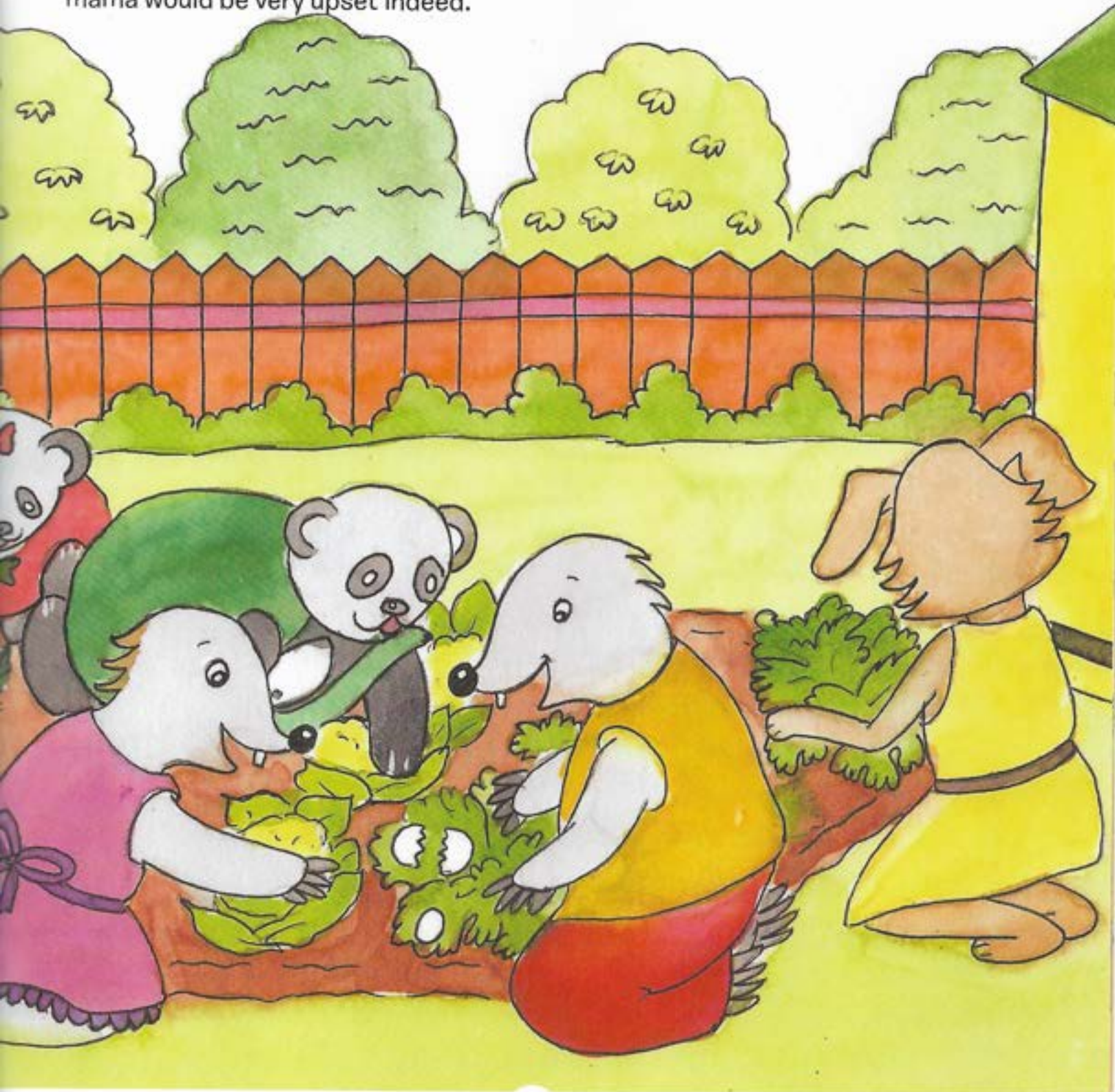
Mama Mole had planted parsley, carrots and cauliflower in her vegetable garden .Mole was just about to reach for the ball, when he spotted something that looked like tiny eggs on some of the Parsley leaves..... "Wow!" yelled out Mole to all his friends "Look what I found!" .Everyone eagerly came running up to Mole to see what he had found. "Look hereI think these are butterfly eggs!" said Mole excitedly.



All the friends looked very closely at the eggs on the parsley leavesThey were all super excited upon the discovery of these tiny butterfly eggs!



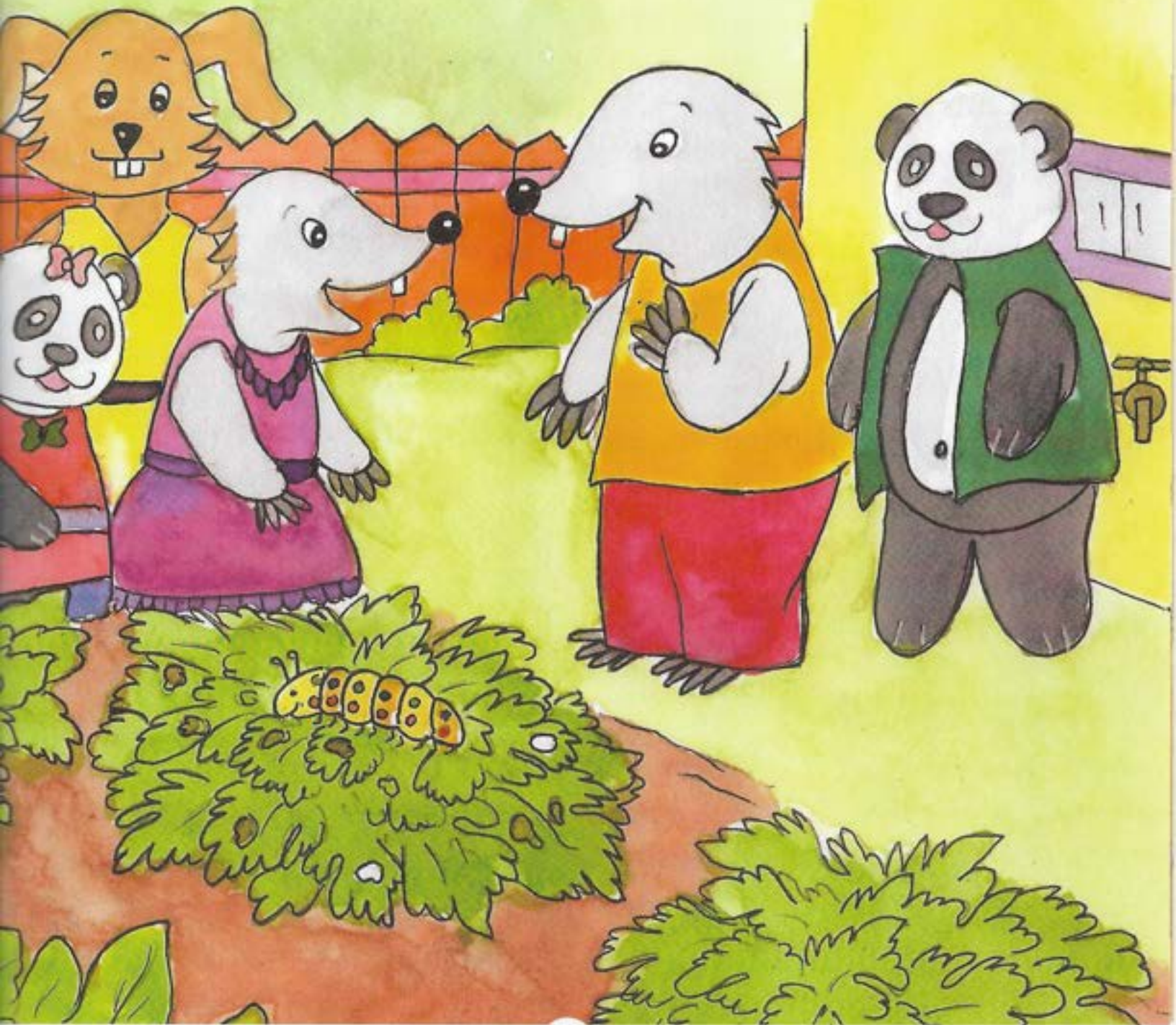
All at once Mole got very excited and said "Lookone of the eggs is already broken.....so now... Mollie, Panda and Pandee we must look for a caterpillar .If a butterfly egg has hatched then there has got to be a caterpillar close by!". All the four of them excitedly started looking for a caterpillar amongst the many vegetables and vegetable leaves. "Be careful not to step on the vegetables please" said Mole to all of them. Mole knew that they must be careful on the vegetable beds or his mama would be very upset indeed.



“There it is!” said Mole, pointing to a small caterpillar sitting on one of the parsley leaves...all the five friends saw the little caterpillar. “Ohhow cute” said Mittens, and all of them agreed. “But why is it sitting on a leaf with so many holes in it?” asked Mole quite puzzled



Mole replied to Molie saying "After the caterpillar hatches from its egg it needs to grow very quickly, and so for the next two to four weeks it eats everything it can find.....it even eats the leaves it is sitting on! That's why all the leaves around the caterpillar have so many holes in themAll the leaves have been nibbled on by the little caterpillar". "Aawww she's so sweet.....Lets call her Meya!" said Molie..... and all of them agreed .She really was the cutest and sweetest caterpillar they had ever seen!



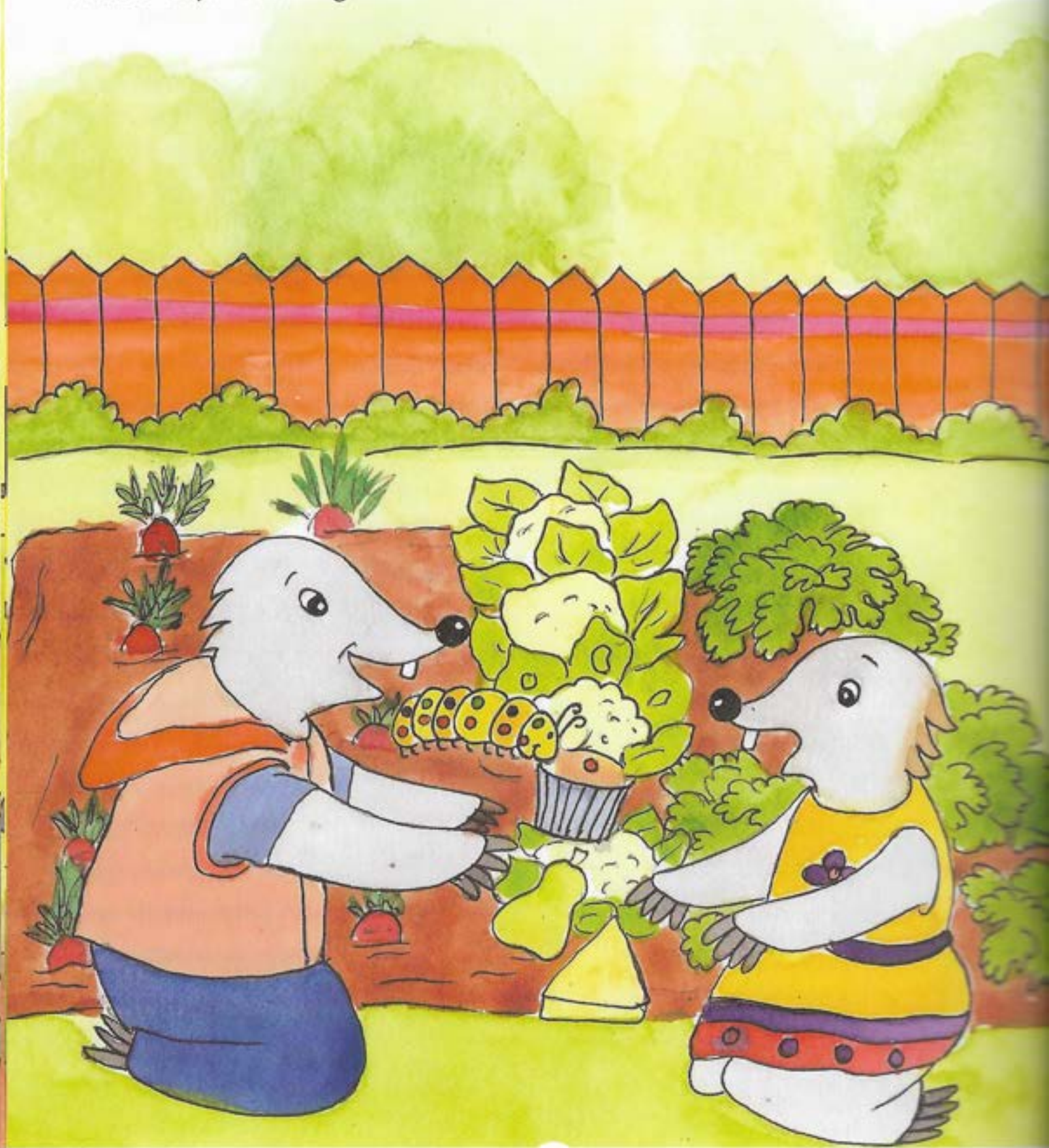
“Wait a minute ...I have an idea!” said Mole. He ran inside his house and came back with a banana, a strawberry and an apple and put it next to the parsley leaf that little Meya was sitting on. “I’m sure that by tomorrow our hungry little Meya will have eaten through all these fruits” said Mole with a big and knowing smile. It was getting late so the friends left for their homes and Mole and Molie went into their own house too.



The next day Panda, Pandee and Mittens again came over to Mole's house to play with Mole and Molie. Excitedly all of them went to explore and look for their little caterpillar Meya.....and they saw hernow sitting on a cauliflower leaf! The leaves of the cauliflower had many holes in them. Their little Meya had been busy eating, eatingand eating more! Whythey even found holes in the banana, strawberry and apple, that they had left there the day before! "LookShe even ate through the strawberry!" exclaimed Molie with a big smile. "One thing's for sureour little Meya has grown and become a little bigger than she was yesterday" said Mole.



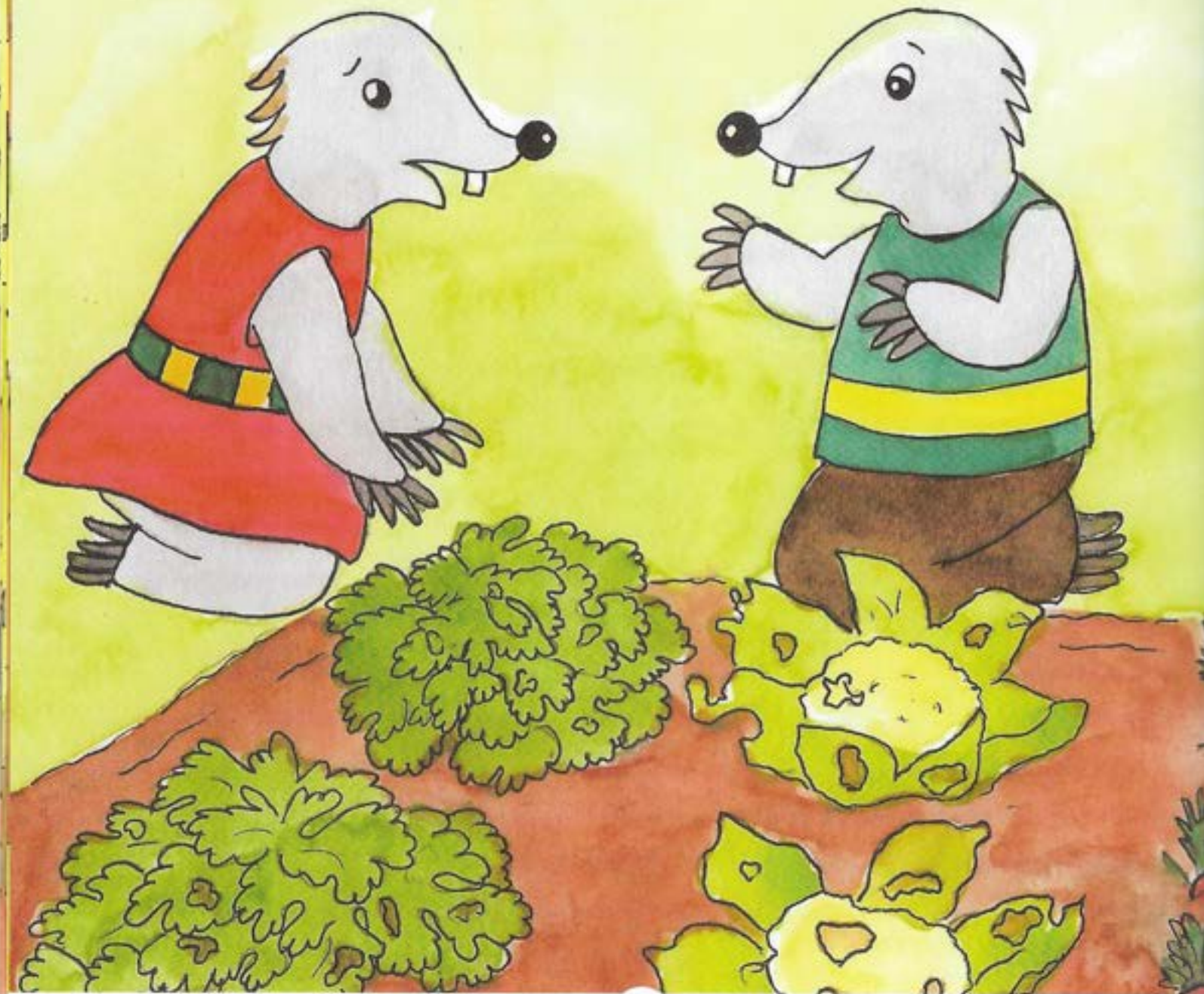
This time Mole left a pear and a piece of cheese for little Meya and Molie got her a fruit muffin. Mole and Molie left the pear, the cheese and the fruit muffin close to where Meya was sitting.



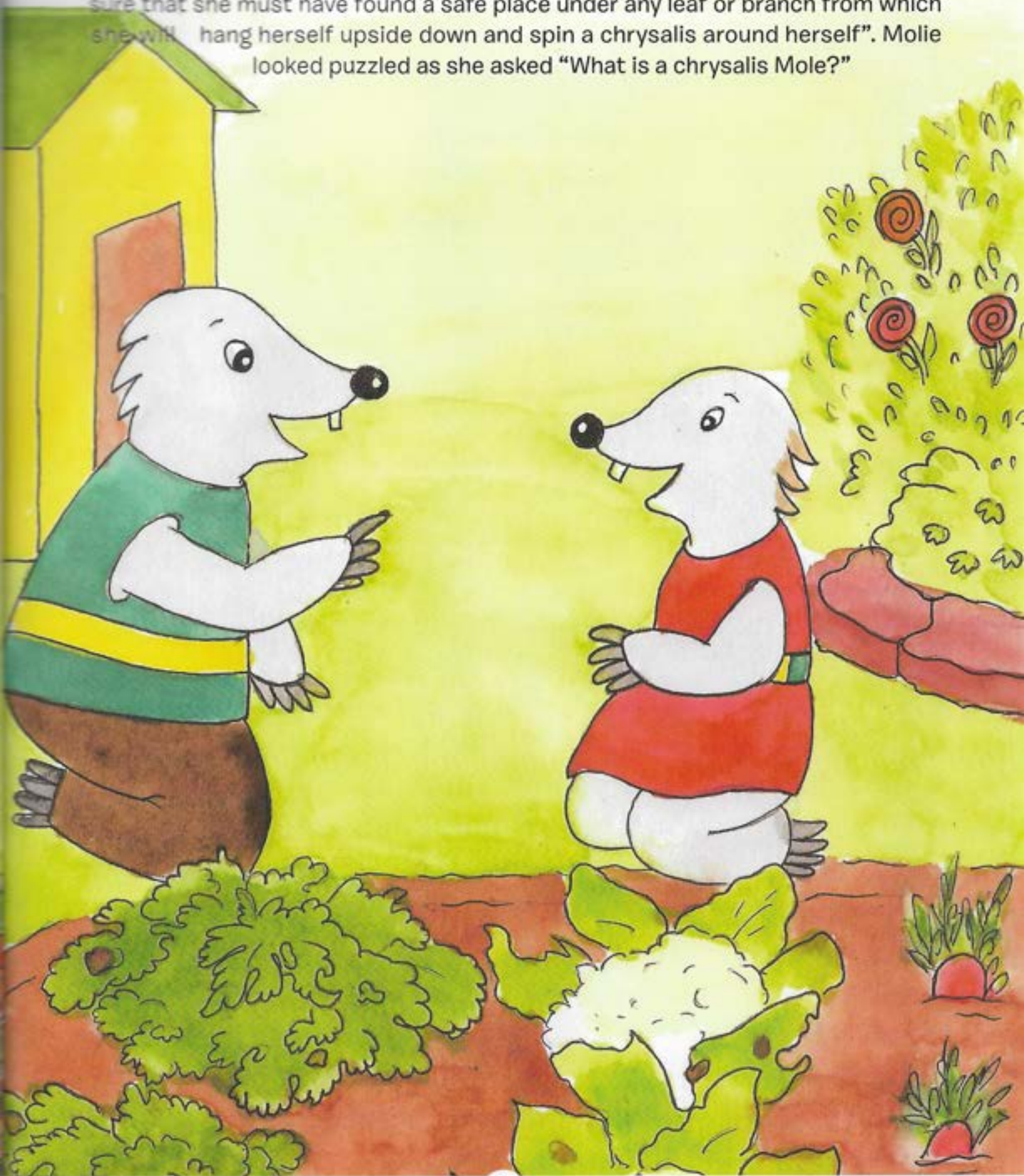
The next day Mole and Molie again went out into their garden to check on little Meya . Pointing to the remains of the pear, cheese and fruit muffin that they had left there the previous day, Mole excitedly said “Molielook at all the holes in the pear, cheese and fruit muffin!” Molie looked lovingly at a munching little Meya and said “Our little Meya sure is one hungry little caterpillar and I think she has again grown a little bigger than yesterday!”



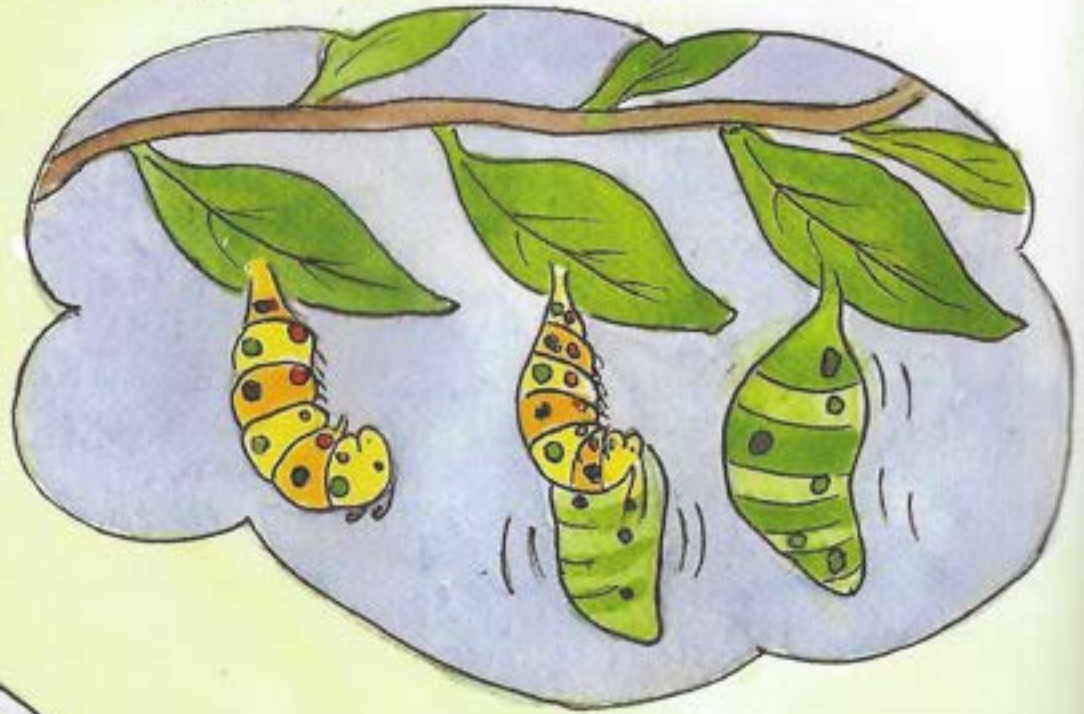
Later the same day Mole and Molie went to check on Meya once more, but they simply could not find her. They looked and lookedand lookedall over Mama Mole's vegetable patch but Meya was nowhere to be seen! "Aawww she's gone Mole" said Molie sadly



Mole thought for a while and then said "I think Meya has eaten enough now, so I'm sure that she must have found a safe place under any leaf or branch from which she will hang herself upside down and spin a chrysalis around herself". Mollie looked puzzled as she asked "What is a chrysalis Mole?"



“When the caterpillar has eaten enough, it makes a silk thread with its own mouth and spins it around itself to make a cocoon. This cocoon that it spins around itself is called a chrysalis. Inside its chrysalis a caterpillar safely keeps growing for around fourteen days” explained Mole. Molie listened to Mole with amazement. “So..... this chrysalis is like a little blanket covering little Meya till she grows up, right Mole?” Mole nodded “Yes, it is something like that Molie”.



"Nowwe need to look for a chrysalis Molie" said Mole. Mole and Molie started their search for the chrysalis.

"**Look**I found itThere's the chrysalis Molie....and our little Meya is now safely inside it" said Mole excitedly pointing under a parsley leaf! Both of them took a long look at the small chrysalis hanging under the parsley leaf. They both were very enchanted by the thought that their little Meya was hanging upside down inside it!

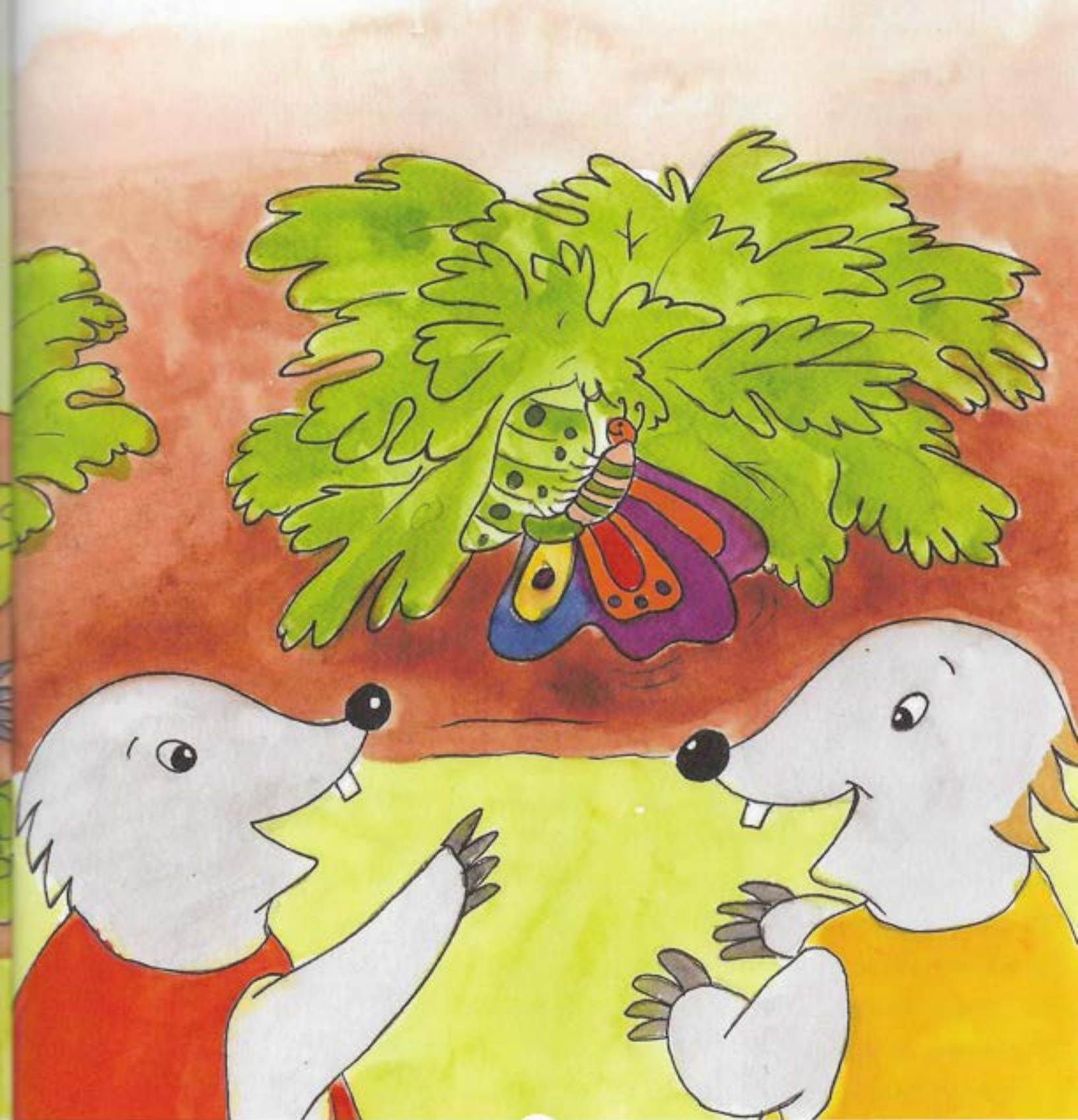


“Will Meya come out of this chrysalis Mole?” Asked Molie quite worried. Mole gave Molie a big smile and replied “Yes Molie she will certainly come out of her chrysalis after about fourteen days**BUT** with a big surprise!”. Mole opened up his arms wide to show Molie what a big surprise was ahead for them after fourteen days. Now Molie was really puzzled

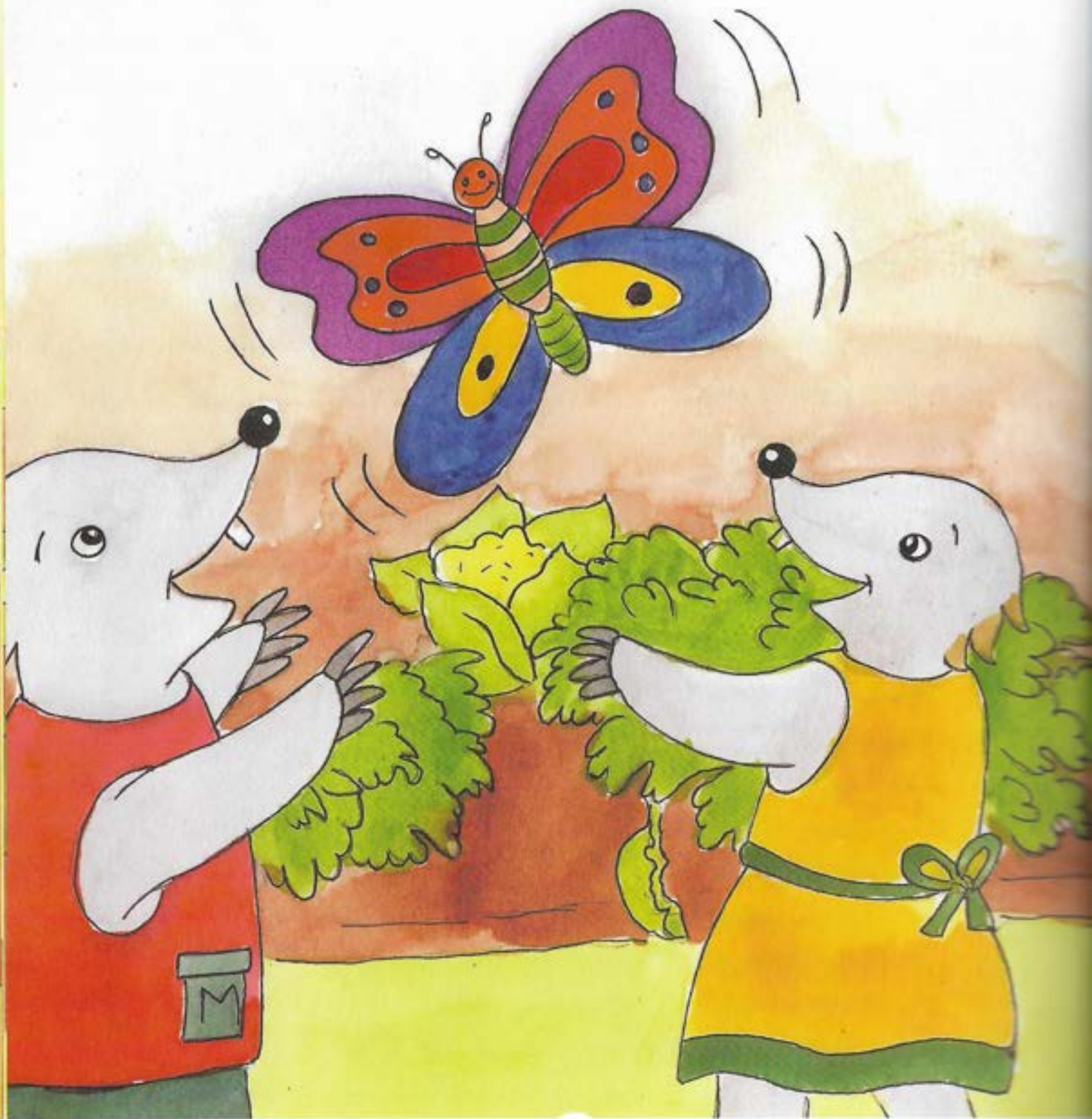
For the next thirteen days Mole and Molie would see their little Meya still hanging upside down cocooned in her chrysalis. Sometimes Molie would giggle as she would see the chrysalis wriggling and she knew that it was little Meya wriggling from inside the chrysalis



On the fourteenth day when Mole and Molie went to look at the chrysalis they were in for a big surprize! Something from inside the chrysalis seemed to pushing the walls of the chrysalisand slowlyslowly coming out of it was the most beautiful butterfly they had ever seen! Mole smiled knowingly but Molie was totally awestruck!

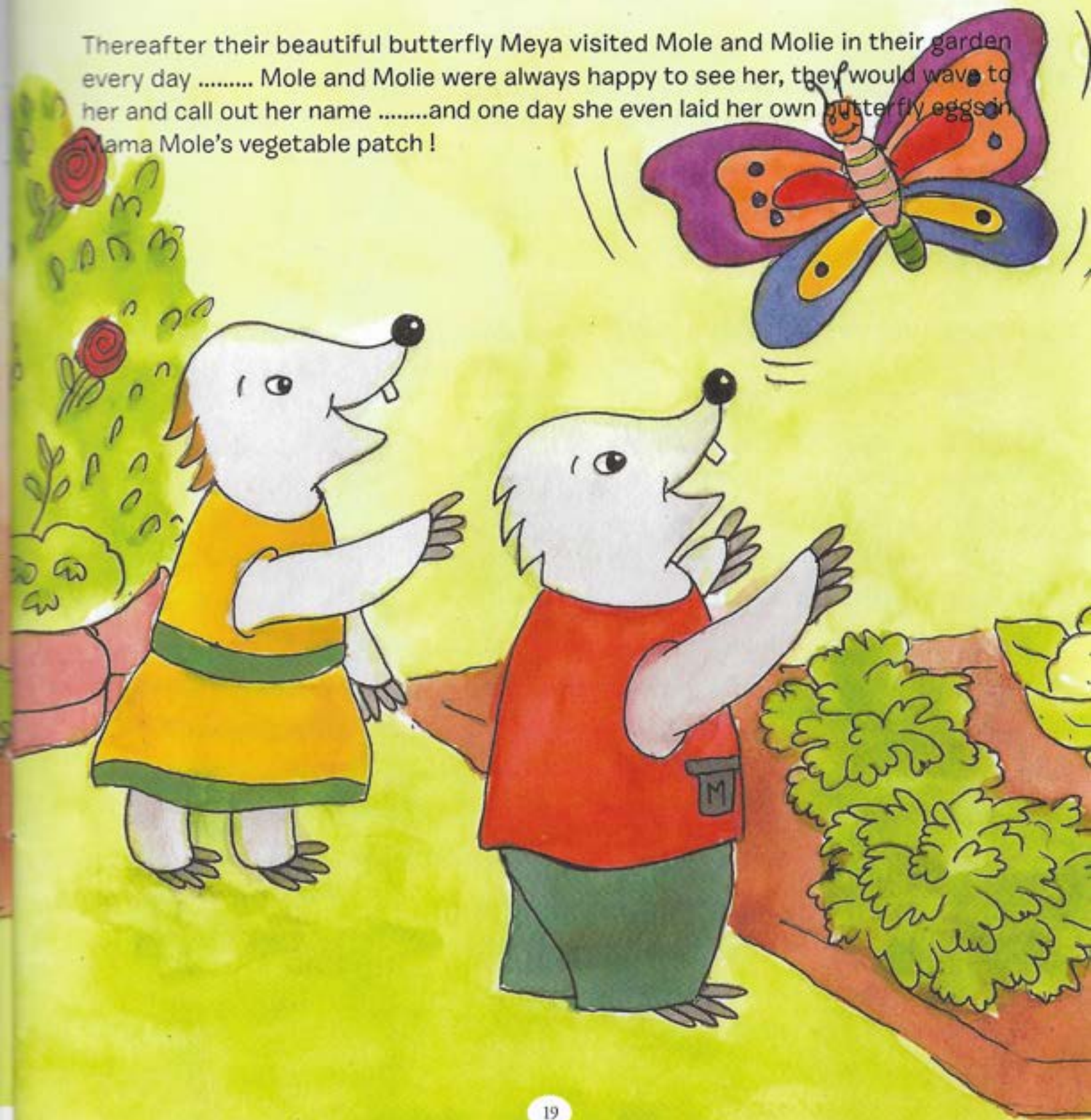


“WowOur little MeyaOur little caterpillar has turned into the most beautiful butterfly and this process is called *Metamorphosis*. It is the process in which a caterpillar turns into a butterfly and it’s a beautiful miracle in nature. **This** was the big surprise that I was talking to you about ,fourteen days ago Molie!” said Mole.



"Now Meya will lay her own eggs, and once again they will hatch into caterpillar's, who after eating a lot will spin a chrysalis around themselves to finally come out as beautiful butterflies!" said Mole .Mole and Molie were full of joy to see that their little Meya had turned into such a beautiful butterfly .They kept waving and calling out to Meya.....

Thereafter their beautiful butterfly Meya visited Mole and Molie in their garden every day Mole and Molie were always happy to see her, they would wave to her and call out her nameand one day she even laid her own butterfly eggs in Mama Mole's vegetable patch !



Have you ever seen a butterfly? What colour was it?

Mole tells us about the various stages in the life cycle of a butterfly.....which do you find the most interesting?

When little Meya disappears from the vegetable patchwhere does she go? Mole has explained this in the story.

What happens to a little caterpillar after it has been in its cocoon for about 14 days?

Can you draw out the different stages in the life cycle of a butterfly?

MOLE BOOKS

Book Two

From the Second Series: The Little Scientist
Explore the World of Frogs with Mole



Today was the big day, when Mama Mole had promised to take Mole and Molie along with their friends Panda and Pandee for a picnic to the beautiful Mystical Park in Mole Town .The Park had several beautiful ponds. Molie was especially excited as Mole had promised to take all of them to explore some of the lily ponds to see if they would be able to find any frogs there.....It was really going to be an exciting and fun filled dayFull of excitement all the children helped Mama Mole to put their things into the car.....

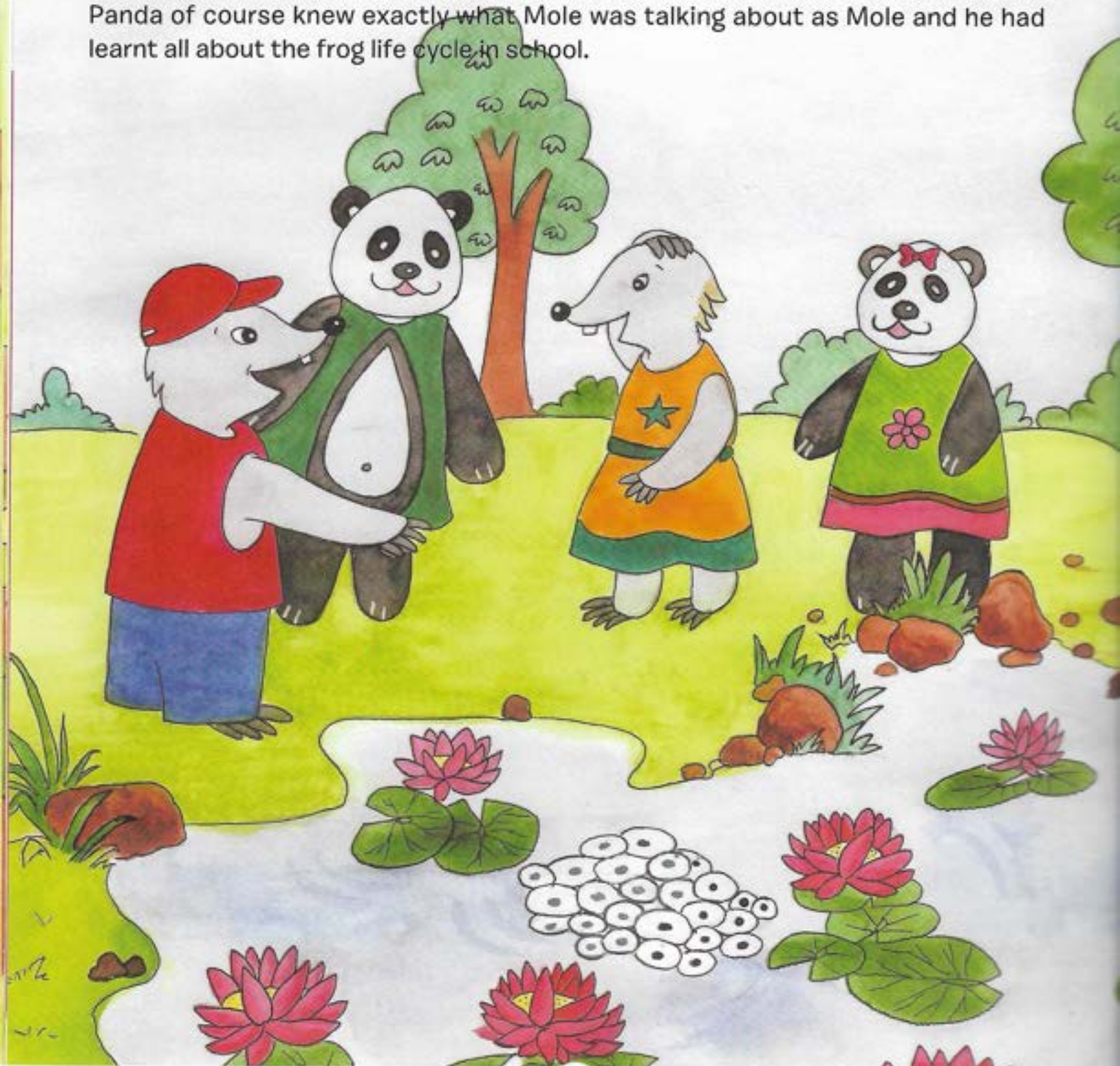


Amidst a lot of excited chatter they reached the Mystical Park in Mole Town. All of them helped to spread out the picnic mat at a beautiful spot right next to a beautiful lily pond which had many water lilies in full bloom. "May we go and explore a little mum?" asked MoleMolie, Panda and Pandee eagerly looked at Mama Mole awaiting her answer.....

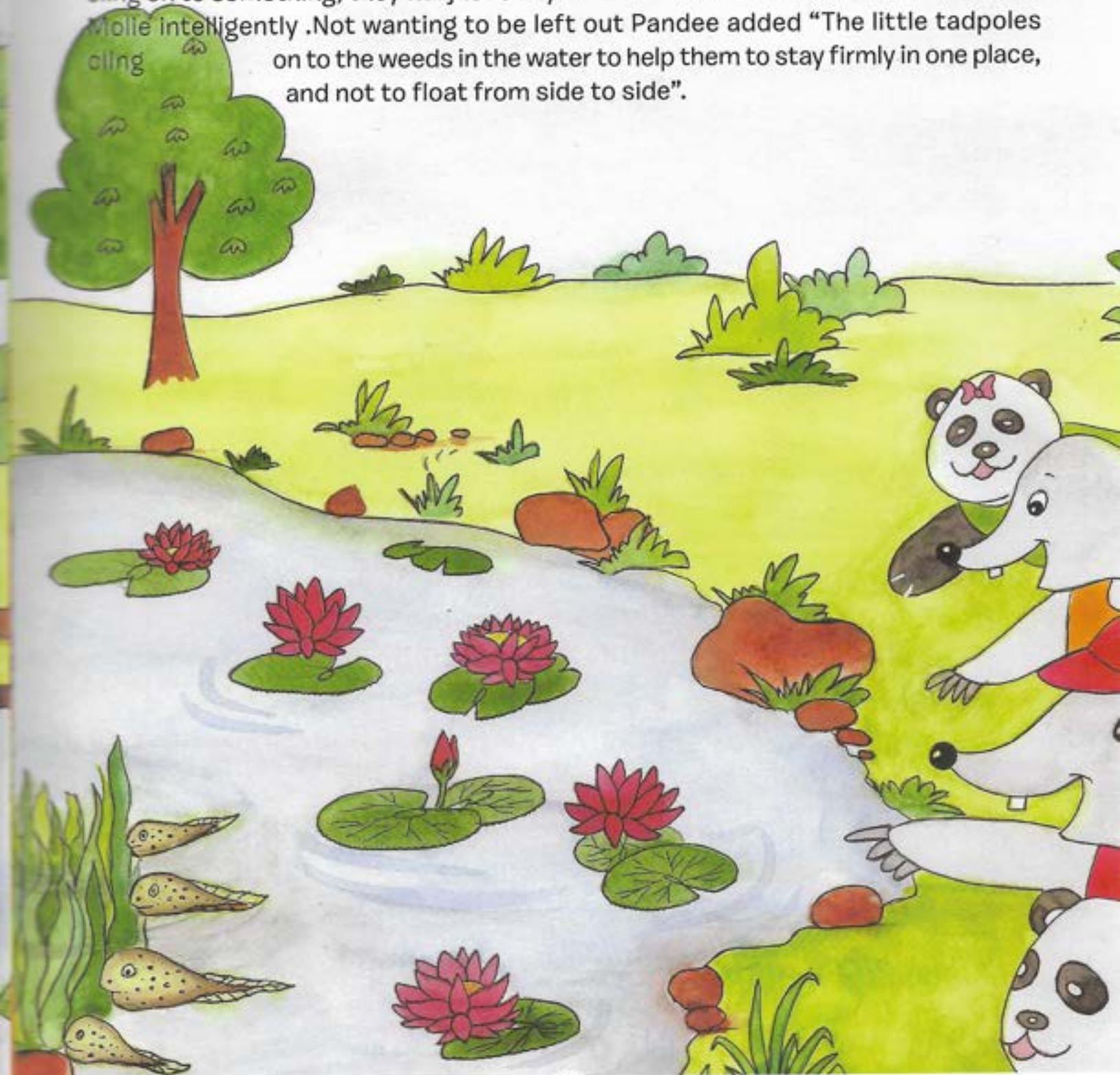
"Sure you may, but stay close and take care not to fall into the pond" replied Mama Mole with a smile.



Mole, Molie, Panda and Pandee started their walk around the lily pond and almost immediately Mole said "WowLook! There in the waterNext to the water lilies.... I'm sure that's *frogspawn!*". "What's frogspawn?" asked Molie a little confused. "Moliefrogspawn is a floating clump of frog's eggsIn the spring time the female frog lays her eggs in water.....Each egg is like a small transparent jelly ball and inside the jelly ball there is a small tadpole....A tadpole is a baby frog!" explained Mole. All their inquisitive little eyes stared at the frogspawn in amazement Panda of course knew exactly what Mole was talking about as Mole and he had learnt all about the frog life cycle in school.



Mole and Panda felt very important to be able to tell their little group all about frogs. "After 21 days the little tadpole hatches from its jelly egg and for support it attaches itself to any weed or plant in the water" said Panda. Mole took it from there and continued "This tadpole has a long tail and does not even look like a frog..... **Look there**.....In the water you can see some tiny tadpoles clinging to the weeds". Mole was looking at the little tadpoles in amazement "I suppose that if they don't cling on to something, they will just sway from side to side in the water" concluded Mole intelligently .Not wanting to be left out Pandee added "The little tadpoles on to the weeds in the water to help them to stay firmly in one place, and not to float from side to side".

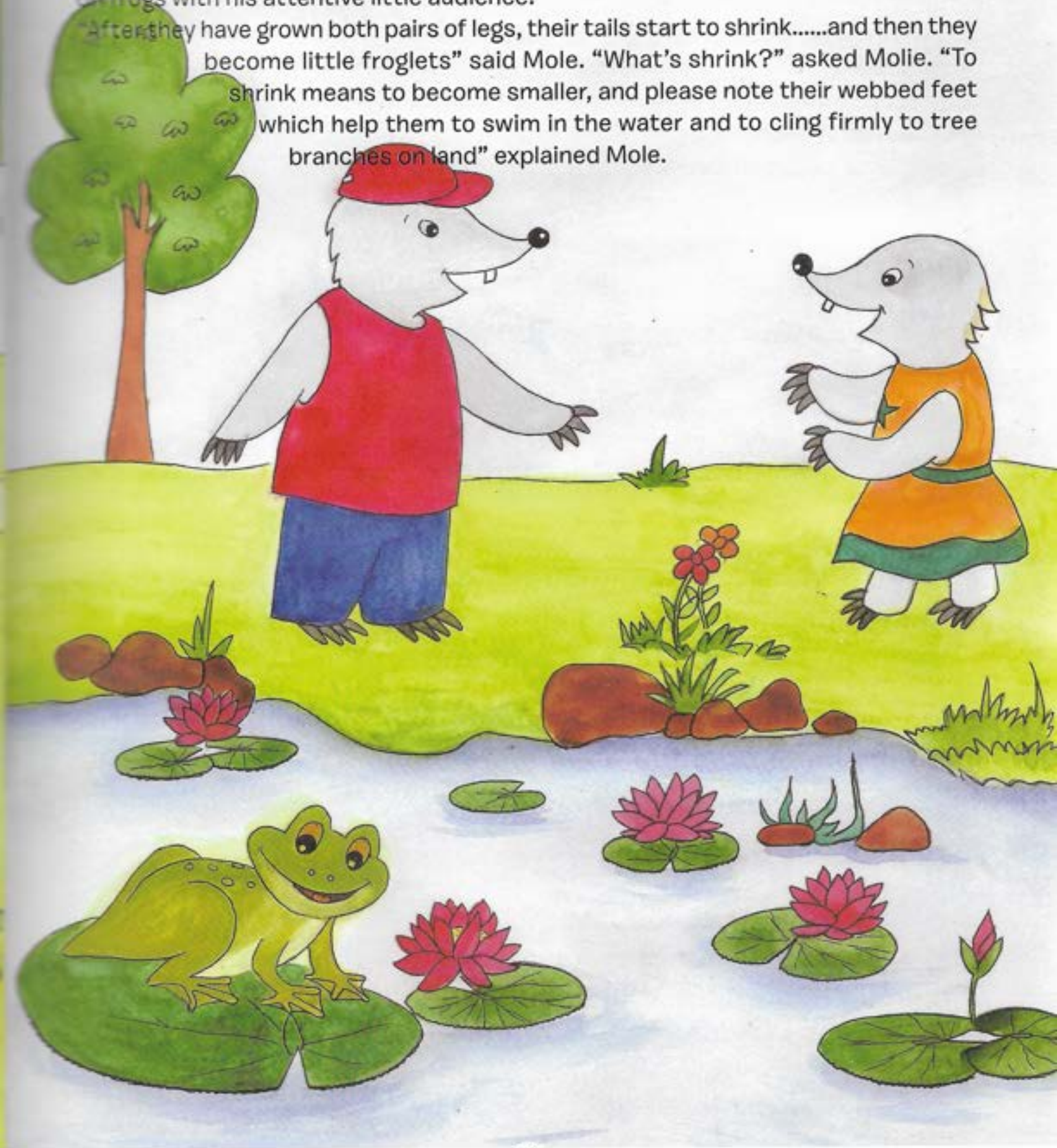


Mole said "The tadpoles are hungry little creatures and so they eat and eat and eat.....**and then***they begin to change their appearance!* First of all their hind legs grow. The pair of legs at the tail end of their bodies are called their hind legs, and they are very strong and powerful..... On land they help the frog to jump over long distances at a fast pace and in water the frog's hind legs make him a very good swimmer". Mole and Pandee were soaking in all this information with complete attention.

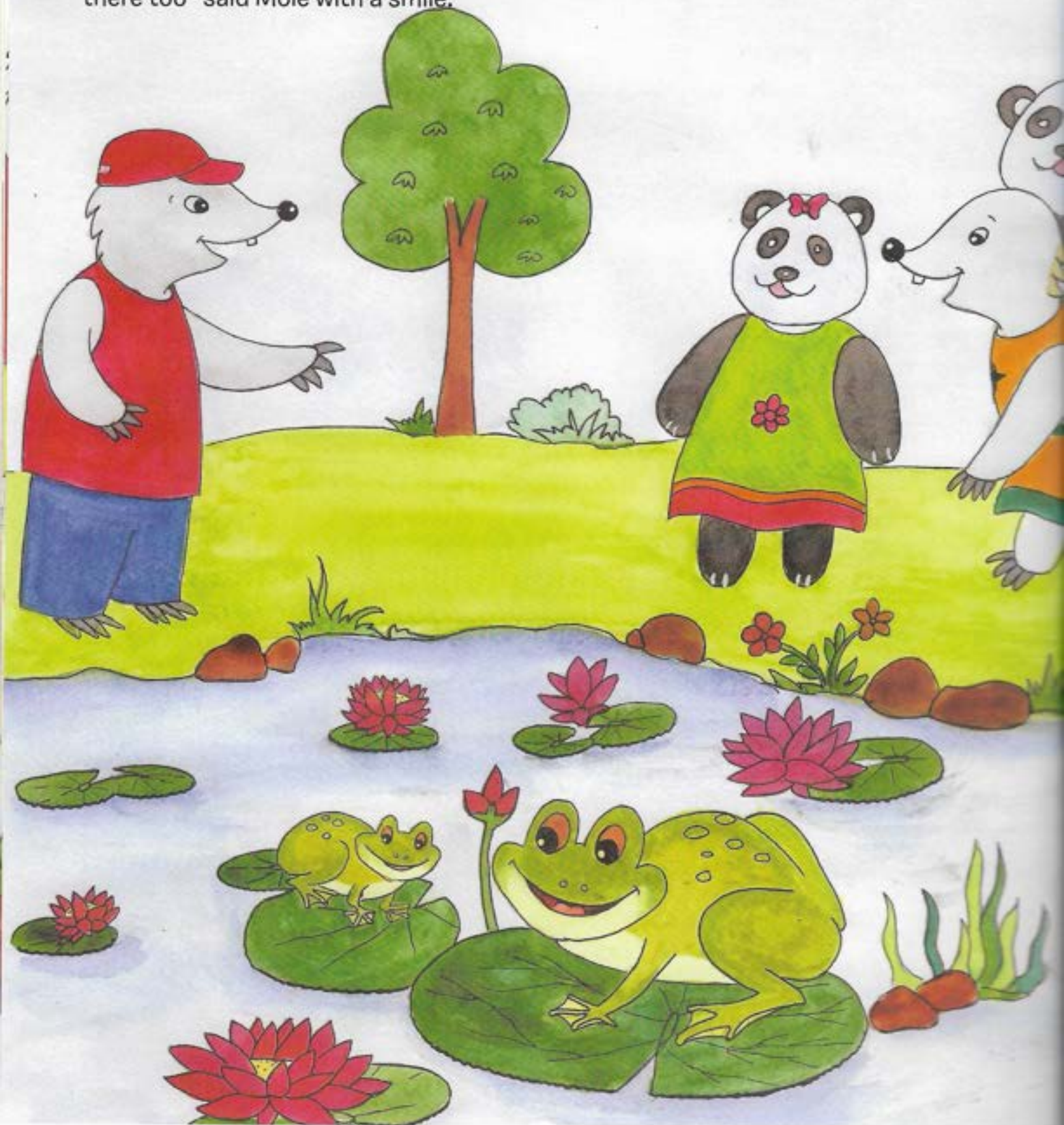


"After they have grown their pair of hind legs, they begin to grow a pair of front legs too" pointed out Mole, who by now was thoroughly enjoying sharing his knowledge on frogs with his attentive little audience!

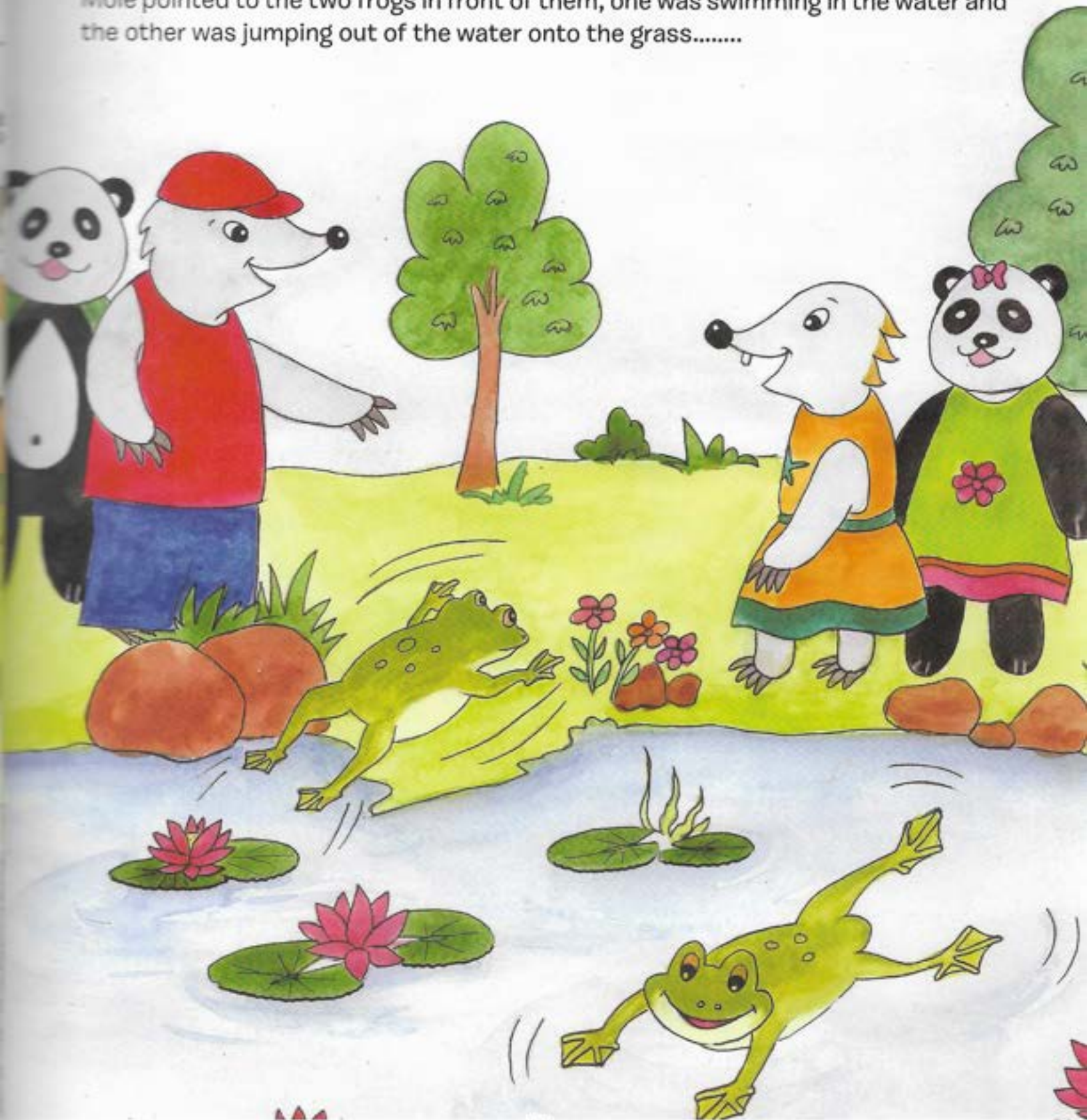
"After they have grown both pairs of legs, their tails start to shrink.....and then they become little froglets" said Mole. "What's shrink?" asked Mollie. "To shrink means to become smaller, and please note their webbed feet which help them to swim in the water and to cling firmly to tree branches on land" explained Mole.

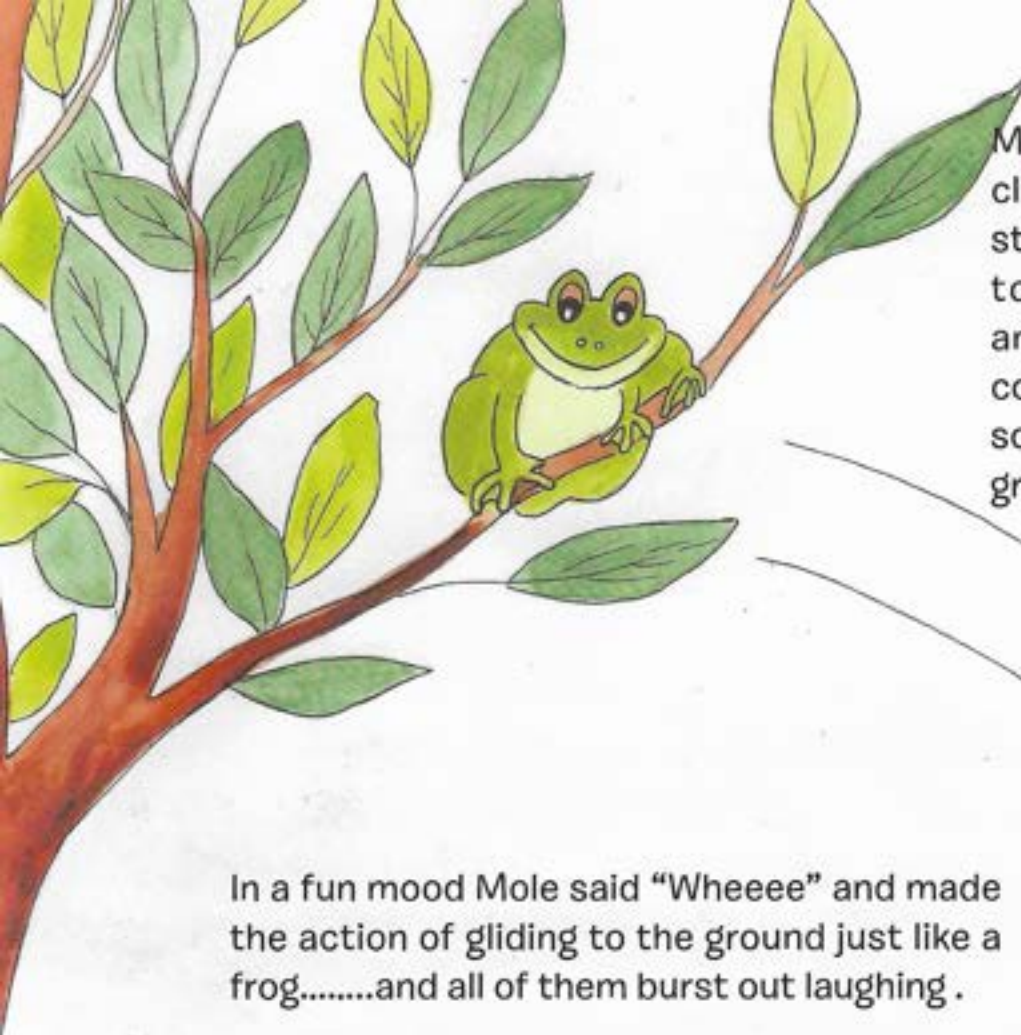


“When the tails of the froglets completely disappear the froglet becomes an adult frog. The adult frog then leaves the pond where it was born but one day soon the female adult frogs return to the same pond again to lay their own eggs there too” said Mole with a smile.



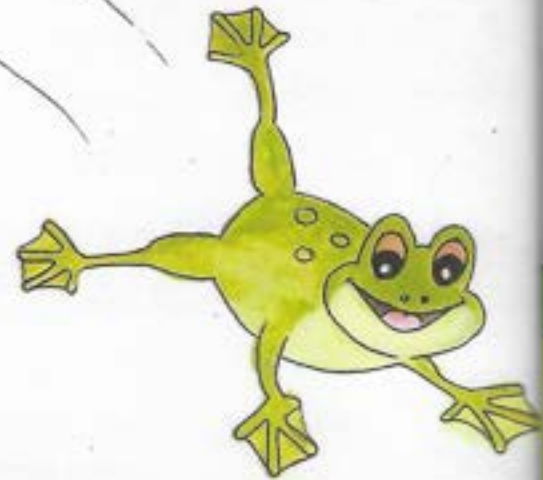
"Wowtoday we learnt all about the frog life cycle" said Molie .Pandee smiled and clapped with joy. Mole beamed and Panda smiled .Mole continued "The important thing to note is that **frogs are amphibians** just like the toad and the salamander, as they can stay both in the water and on the land too. This makes them very special!" Mole pointed to the two frogs in front of them, one was swimming in the water and the other was jumping out of the water onto the grass.....



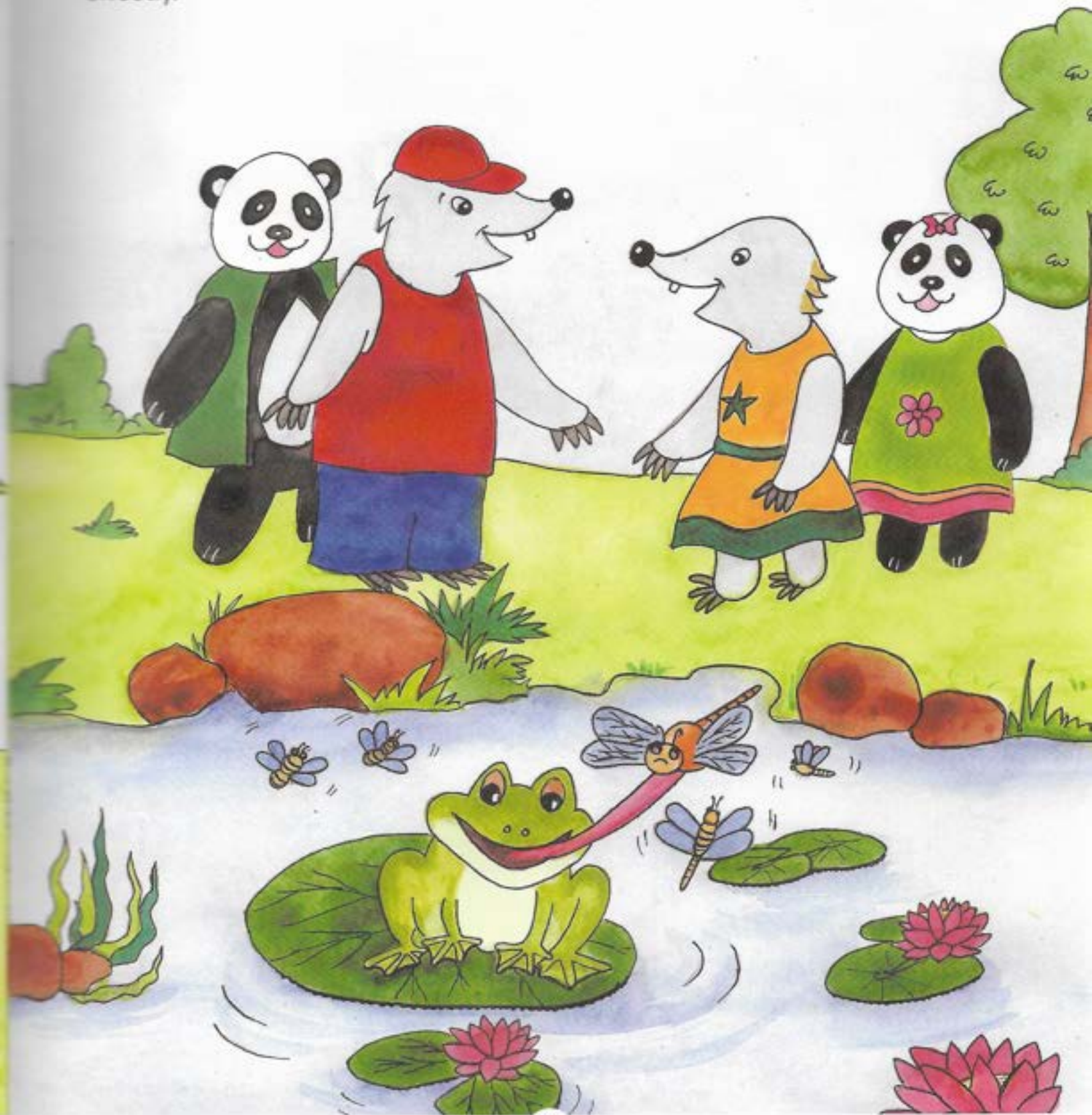


Mole continued "Frogs also climb trees, and for this their sticky webbed feet help them to cling to the tree trunk and the tree branches to come down from the tree they sometimes glide down to the ground.....like Wheee!".

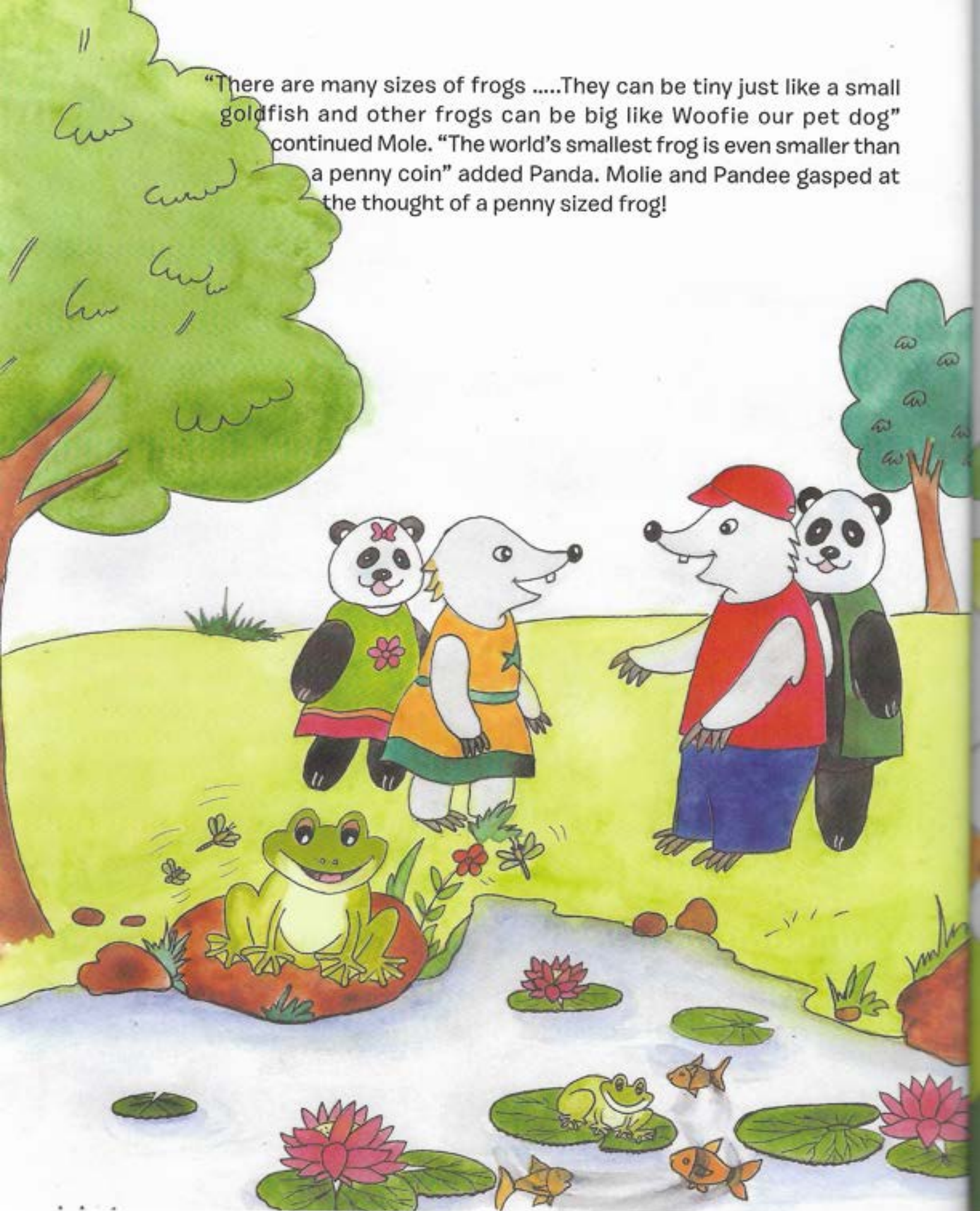
In a fun mood Mole said "Wheeee" and made the action of gliding to the ground just like a frog.....and all of them burst out laughing .



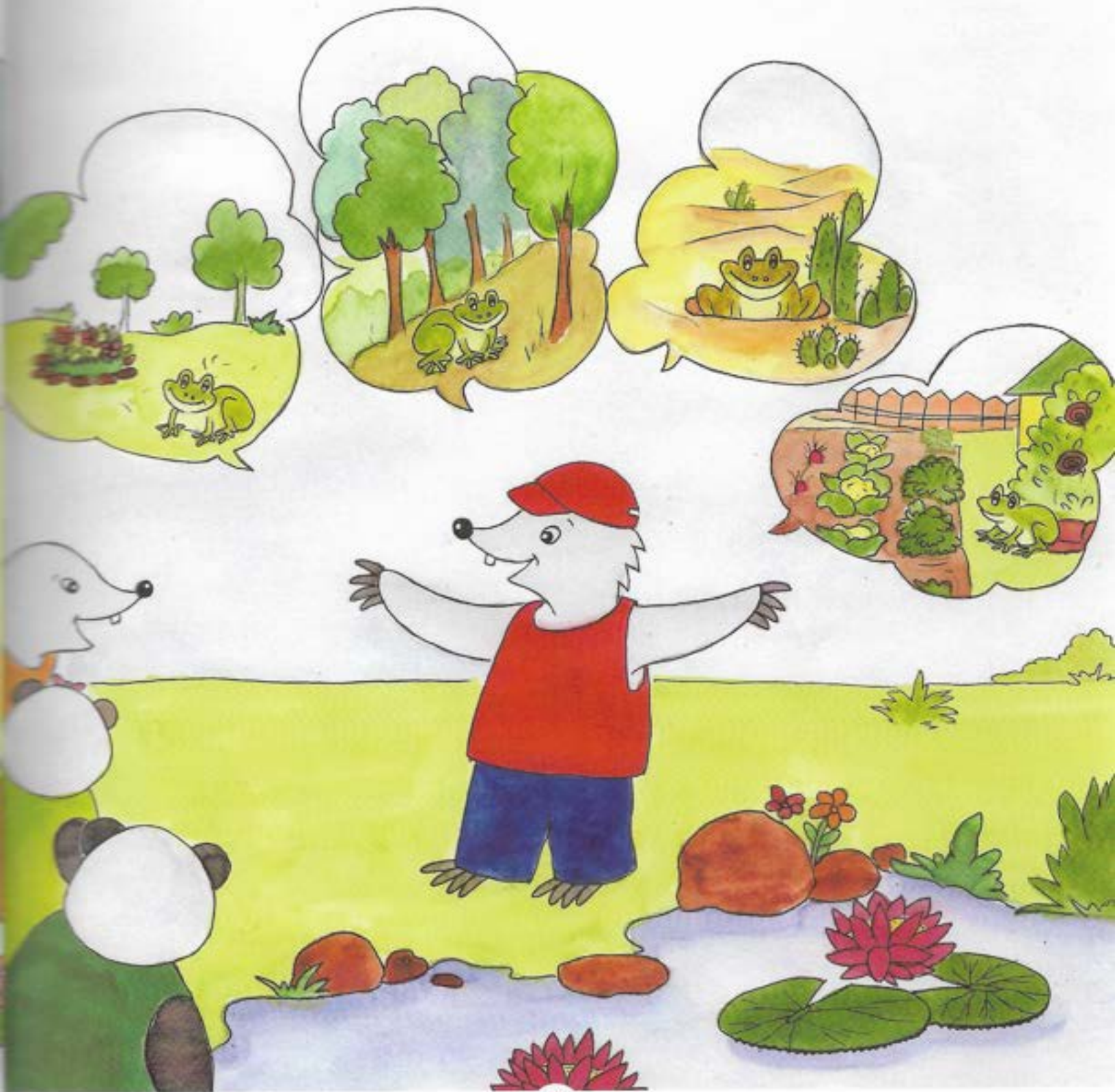
"Another interesting thing about frogs is how they catch their food and eatFrogs eat all kinds of bugs, flies and other small insects. They have a long and sticky tongue which they shoot out when they want to catch a bug as soon as the bug gets stuck onto the frogs long sticky tongue, the frog snaps it up!" said Mole grinning sweetly.



"There are many sizes of frogsThey can be tiny just like a small goldfish and other frogs can be big like Woofie our pet dog" continued Mole. "The world's smallest frog is even smaller than a penny coin" added Panda. Molie and Pandee gasped at the thought of a penny sized frog!



Mole spread his arms out wide and said "Frogs can be found everywhere In parks, forests, deserts, near ponds. They can even be found in our garden at home!" said Mole with a grin.



"Frogs have to be very clever to save themselves from being hunted by predators like the snakes, hedgehogs, cats and dogs.....Even some larger birds can make a meal out of a frog.....And for this they use some smart tricks! They produce a slimy foul smelling sticky liquid all over their skin whenever they are under attack by any predator.....This substance on their skin stinks horribly and instantly shocks the predator, who immediately backs away from the frog leaving it perfectly safe" continued Mole with much importance. The whole group heaved a sigh of relief at the thought of the frog finding a way to keep safe.



“Our teacher at school even said that sometimes to save themselves from birds, that try to swoop down and pick them up for a meal...The frogs puff up their size to make themselves very large and scary. When the bird sees this large puffed up frog it gets frightened and flies away leaving the frog safe and unharmed” said Mole. “I must say that frogs are really clever at saving themselves” said a relieved Mollie. Pandee nodded in agreement.



"Can frogs talk to each other Mole?" asked Molie.
"Molie frogs communicate with each other by making various sounds like croakkkk.....or kraaaak or even ding dong ding! Why some frogs even sound like our papa Mole snoring schnoorrr... schnoorrr....!" replied Mole.

CROAK !!!
CROAK !!!

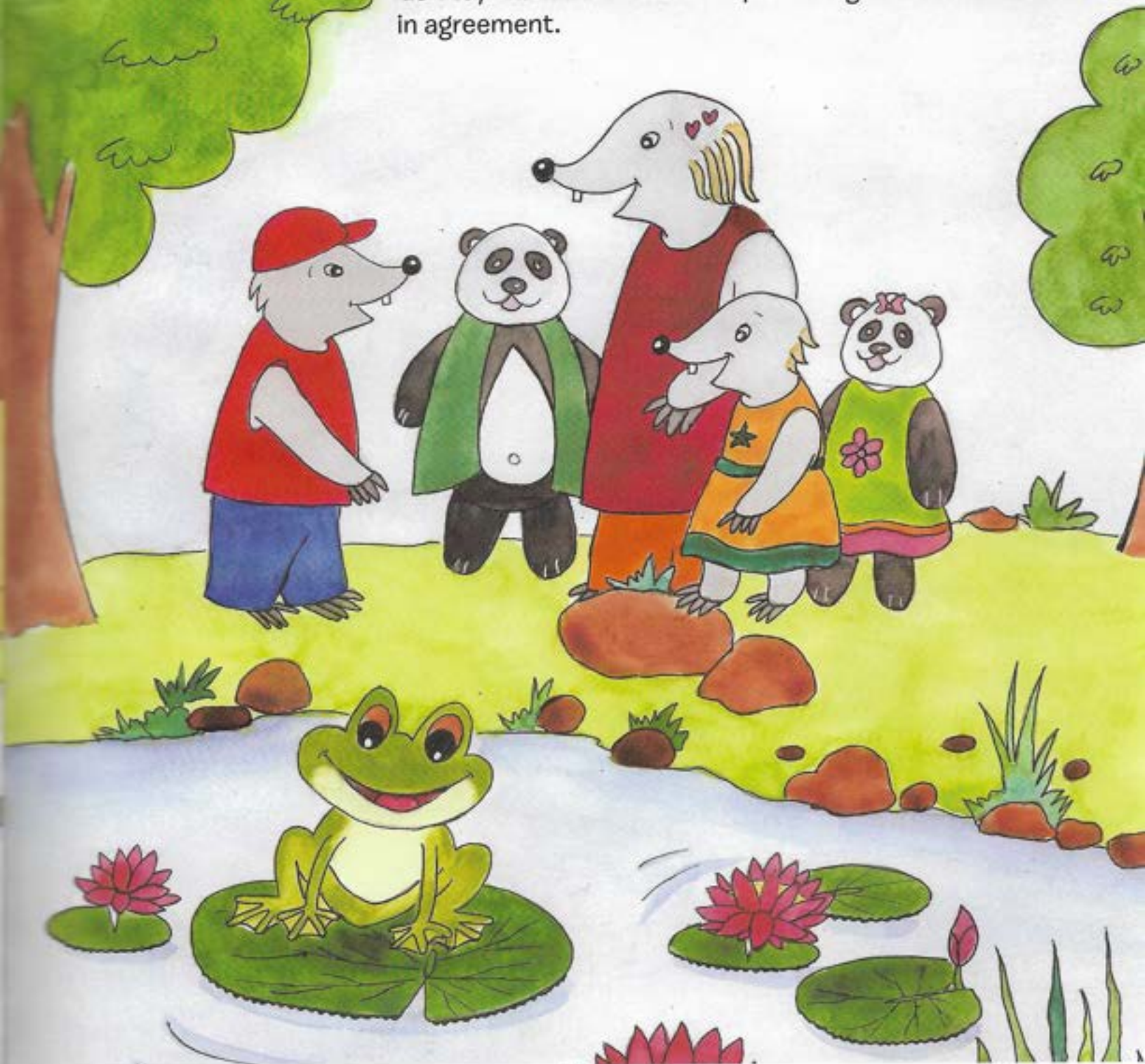
Hearing this Molie, Pandee and even Panda broke out into giggles.

KRAAK !!!

DING... DONG... DING !!!

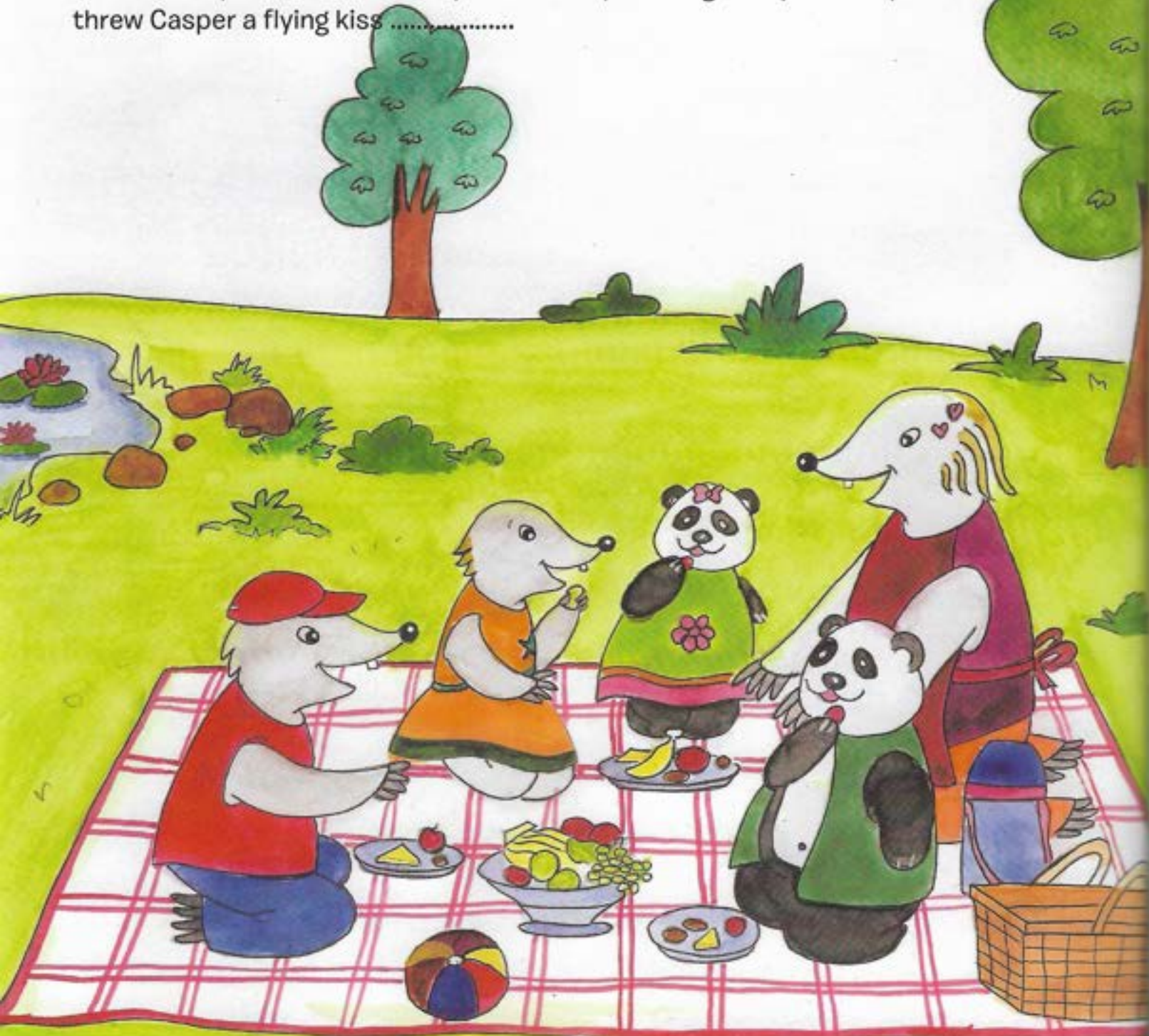
SCHNORRR... !!!

All at once Mole said "LookThere's such a cute frog sitting on that lily pad.....Lets call him Casper!" The four of them happily agreed. Just then Mama Mole came towards them and asked them to come back to the picnic rug on which she had set out some delicious snacks for them! The truth was that by now they were all quite hungry. "Casper is so cute" whispered Mole to Pandee as they walked back to their picnic rug. Pandee nodded in agreement.

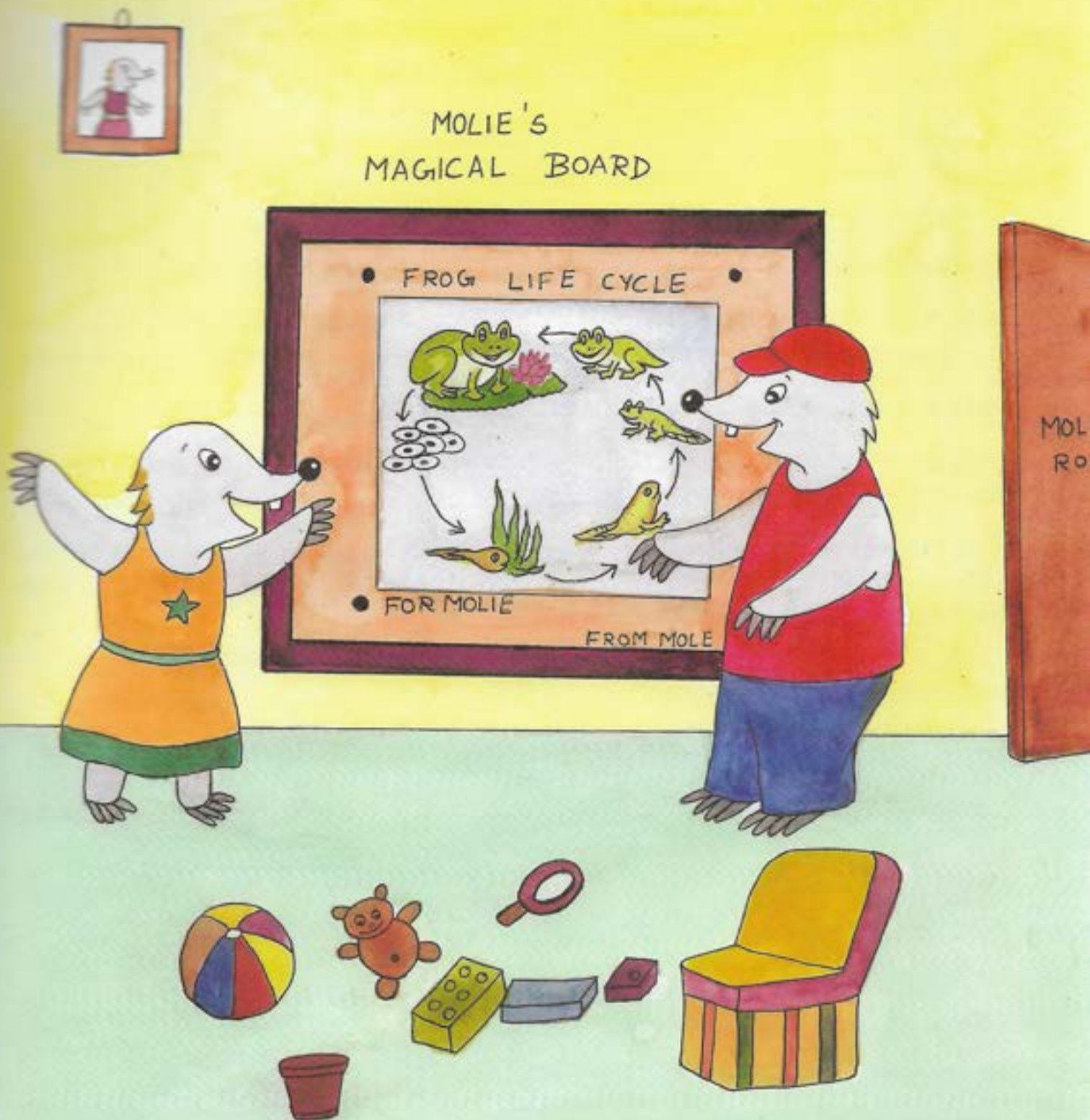


While they were munching on cheese sandwiches, chocolate chip cookies and some fresh fruit, the four friends shared with Mama Mole a lot of the information they had gathered on frogs that day ! They even told Mama Mole about Casper.....

After eating they played some running games. Before they left Mystical Park they went back to the lily pond one more time to say 'Bye' to Casper who was still sitting on the same lily pad. It seemed to all of them that he had been sitting there at the same spot just waiting to say 'Bye' to all of them too ! "Bye CasperWe'll come back to see you sometime" They said as they waved goodbye to Casper .Mole even threw Casper a flying kiss



After they got back home later that afternoon Mole sat down to make a drawing of the various stages of the life cycle of the frog. Mole presented his creation to Molie who was so proud to stick it onto the magnetic board in her room. She even took it to school the next day to share what she had learnt about frogs with her classmates.



Have you ever seen a frog?

Mole tells us various things about frogsWhich do you like the best?

In the story Mole explains how frogs save themselves from predators Do you remember how frogs save themselves from being eaten up by larger animals?

Why do tadpoles cling to the weeds in the water just after they hatch?

Do frogs talk to one another? Mole explains this very sweetlyDo you remember how frogs communicate with each other?

Mole made a beautiful drawing of the frog life cycle for MollieWhat are the stages in the life cycle of frogs?.....Can you recollect them? Would you like to draw them out and put it up in your room too?

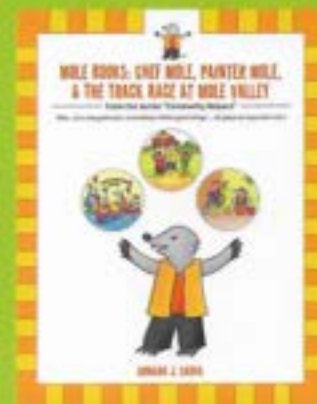
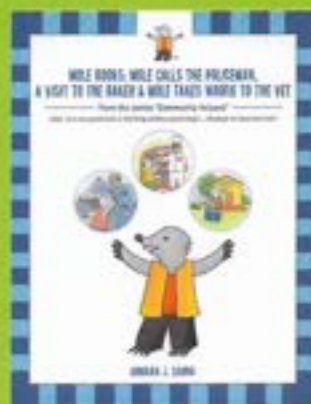
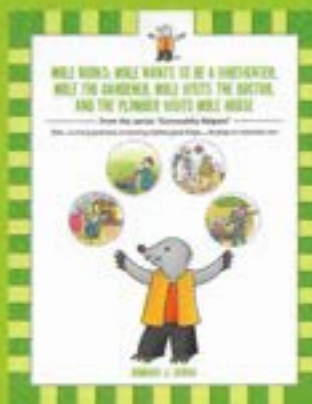


In this Series of MOLE BOOKS "The Little Scientist".....Molethe brand new character in the world of animation once again transports children through colourfully illustrated captivating stories into the secretive world of butterflies and frogs answering many of the children's how's? Why's? And what's? This book contains two wonderfully illustrated short stories. In the first story 'Mole witnesses a Miracle in Nature' children see Mole and his gang of friends discover Meya a little caterpillar and accompany her through her life's journey! In the second story 'Explore the world of Frogs with Mole' it is Mole's involvement with Casper the Frog and aspects of his life that will captivate the children! MOLE BOOKS from the series "The Little Scientist" is the perfect initiation for young children into the infinite world of science! As the children leaf through the stories they will discover their new best friendMole! For more on MOLE BOOKS visit www.molebooks.net

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After the success of his first three MOLE BOOKS from his first series of MOLE BOOKS "Community Helpers" Armaan J Sarna an 11 year old school boy from New Delhi, India presents his readers with the second series of MOLE BOOKS "The Little Scientist"! Armaan created and conceptualised Mole as his protagonist for children's stories he authored to make learning fun for young children!



PARTRIDGE

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