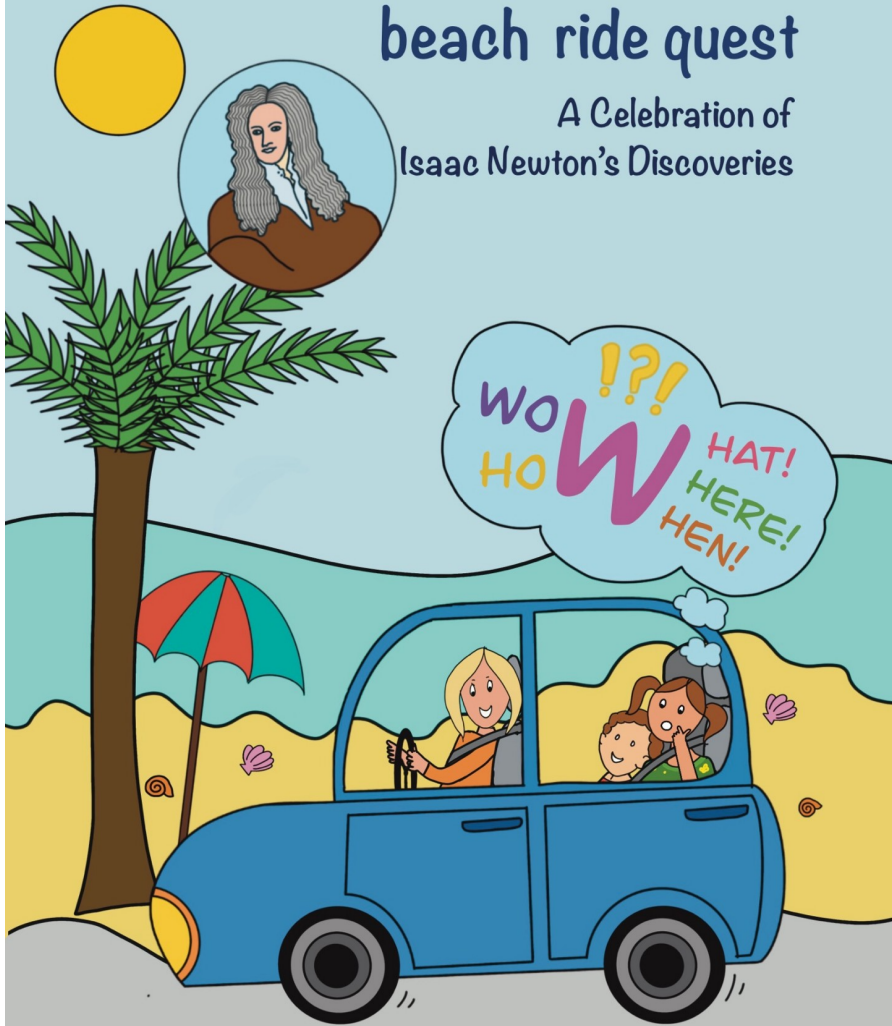




Curious Cassie's beach ride quest

A Celebration of
Isaac Newton's Discoveries



Written By Suneeta Mall Illustrated By Jaya Jha





Curious Cassie's beach ride quest



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Never stop asking,
Keep on believing,
It's all about learning,
Just keep on wondering,
Passionately pursuing,
All your Curiosities!





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I have no special talent.

I am only passionately curious!

- Albert Einstein





In the loving memory of my father, Dr Sushil Kumar Mall!
His insatiable curiosity and unconditional love inspired many,
including myself.

You will be in my heart,
Now and forever,
You will continue to guide me,
With everything you taught me,
Now and forever!
- Suneeta

This book is dedicated to all the fearless curious beans!







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Let's get moving



Cassie is a curious 6 years old child. She loves thinking and asking interesting questions. Today her mum is driving Cassie and Cassie's 3 year old brother Caleb to Cronulla Beach for an





adventurous day! Sssh.. Cassie does not know it yet!

Cassie is playing in the backyard sandpit under the shade of a beautiful yellow wattle tree. “Let's get moving Cassie! We are going to the beach!” - calls Cassie’s mum. Cassie is excited.





She loves beaches and sand. Who does not, right?

She slowly says M O V E!

She is thinking! Slowly she beams -
Curious Cassie has a question!

“You and I can move. Why can't the trees move?” Asks Cassie. Ooh, that's a





brilliant question Cassie - mum exclaims.





The tree has its roots deep in the ground. The roots keep the tree firm in the ground. We have legs and we are not fixed in the ground.

“See!” mum says as she shakes her legs and does a little hop like a bunny. We lift our legs and bring them down to the ground; that’s how we move





around - mum explains. Cassie is convinced and goes back to playing in her sandpit.

Cassie's mum suddenly recalls a fun fact about a special kind of tree - one of its kind. A walking tree that grows in the tropical rainforest. It's called "Walking palm".





Excitedly, mum tells Cassie - "There is a special type of tree called "walking





palm” in the tropical rainforest.

This tree can move a teensy bit to get some sunlight.”



Cassie is amazed now. She runs to find her brother Caleb and shares -” Caleb! Caleb! Did you know, there is a special tree that can walk?”.





They both rush back to mum to find out more. “Tell us more mum, how does it walk with roots in the ground?” asks Cassie.



Mum explains that this tree grows new roots in the direction of sunshine. The sunshine is very important for the trees.





Because the trees use sunshine to make their food. We all need food, right? Both Cassie and Caleb smile to acknowledge that food is important to live. Mum adds further, “as the new roots grow towards the sunshine, the walking palm slowly bends its stump forward to the new root”. “What happens when you bend Caleb?” - mum





asks. My butt-butt feels stretchy, says

Caleb. He giggles as he tries bending forward.

Exactly, mum continues explaining.

Because of the bend, the old roots not facing sunshine get pulled out then -

and dry out. That is how this fun palm

tree moves. Mum adds, but this is a

very very slow process and takes years





to move even the tiniest bit!

Nonetheless, that's your moving tree!

Cassie and Caleb are thrilled! What a fun fact mum - we love it!

Cassie is back to the sandpit and the wattle tree.

Cassie scoops some sand in her spade and tosses it up in the air.





Up up it goes and down down it comes.

She chuckles! Whoops, it's





drizzling, and the water drops are falling.



Everything comes down, I wonder why? Cassie thinks. Wouldn't it be fun if the sand and rain just float? She hollers "Mum, why does everything come to the ground?". Because of gravity sweetie - mum replies.





Do you know what that means? She asks.

Cassie shakes her head. “The ground pulls everything towards itself. Not very strongly but a bit lightly. We can't see it, but we can feel it.” - mum says.

Cassie tries a bunny jump and wonders for a minute. She is thinking





about what mum just said. She takes another bunny hop. She wants to **feel** what the earth will do. “Ooh! I feel nothing mum,” she says.



“Okay. Let's jump together.” - mum is determined to help Cassie feel the gravity. They both jump and bang! They both come down. Were





you making an effort when you jumped?

Did you squeeze your legs and try to lift yourself to go up? Did you? What about when you come down? Try noticing what you were doing. Were you doing anything to come down? Asks mum.

Cassie tries again. “Aha ha ha. I get it.





I made an effort to go up but did not have to do anything because gravity pulled me down?” says Cassie. There you go, that's your gravity. Gravity brought your sand and rain down to the ground. How super duper awesome, isn't it? Exclaims Cassie's mum!





Cassie does two more hops and then another two, she is jumping unstoppably. She wants to thank gravity for making jumping so much fun!

She suddenly recalls that they were going to the beach and she can't wait





to get to the beach now. She starts
singing:

I am marching up and down,

I am moving all around,

I am going to the town,

Where beaches abound,





I will make some sandy towers,

And, show my superpowers,

I will jump up and down the towers,

And, scamper about at this hour,





I am marching up and down,

I am moving all around,

I am going to the town,

Where beaches abound,

