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Presents



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If There Is No Friction...



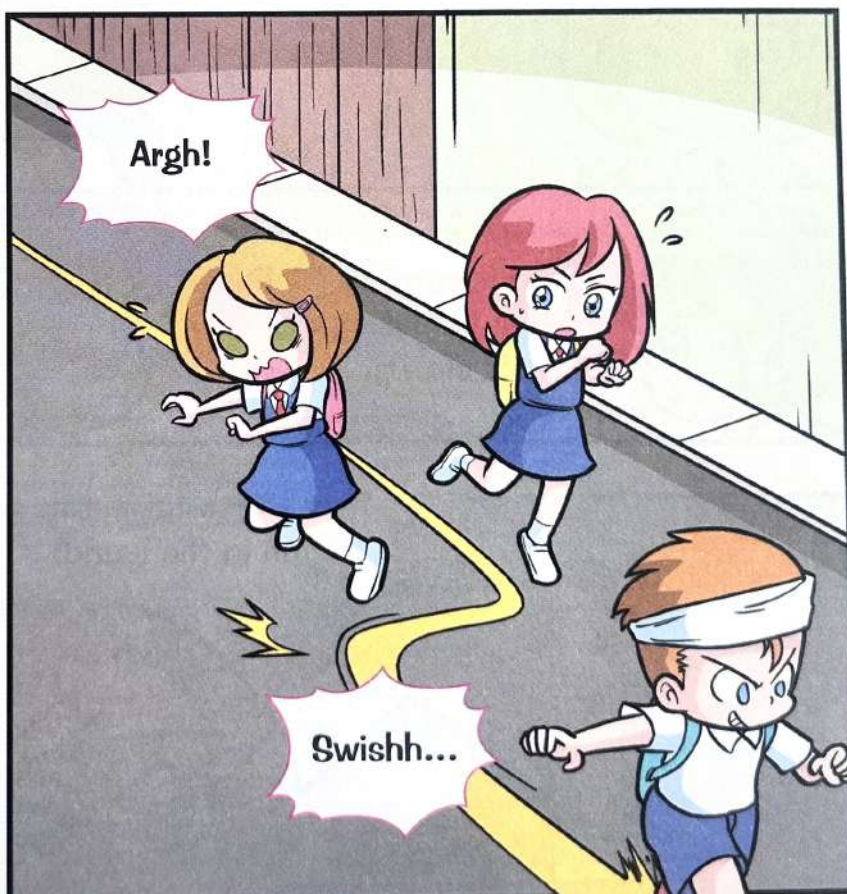
I feel so tired walking under this heat!



I wish I had a pair of wings, then I could fly home at once!



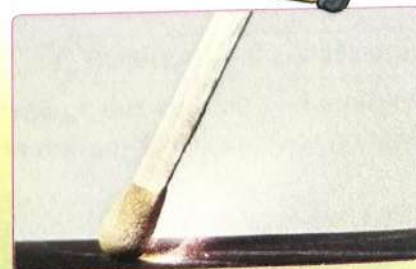
Argh!

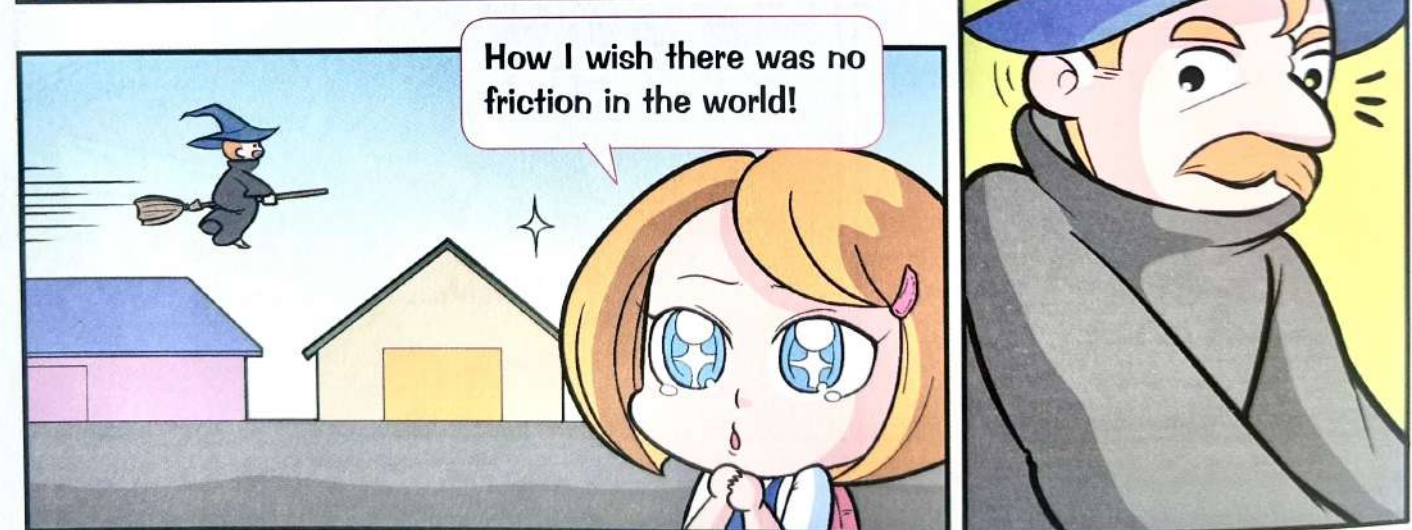
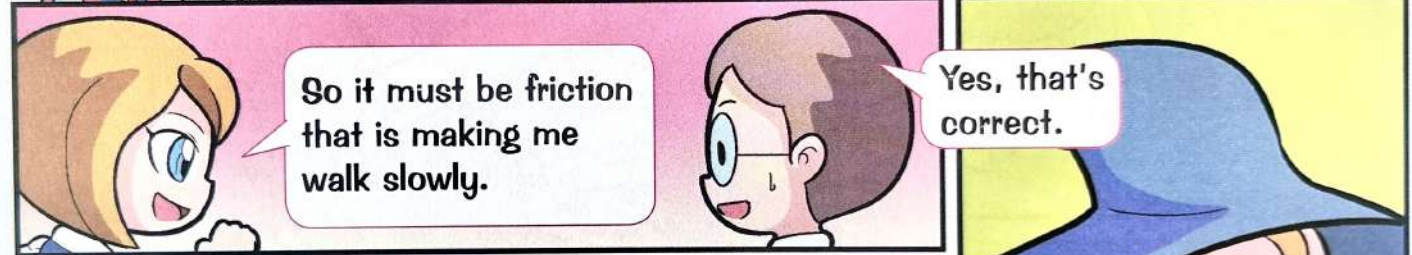


Swishh...

Interesting Information

When the surface of two objects rub against each other, friction occurs.





Interesting Information

Anytime two objects rub against each other, they cause friction. Friction works against motion and acts in the opposite direction.





Let me grant
you your wish.
Friction, be
gone!



Hey, why are we
suddenly falling over?



Ouch!



My backside hurts!



I can't seem
to get up!

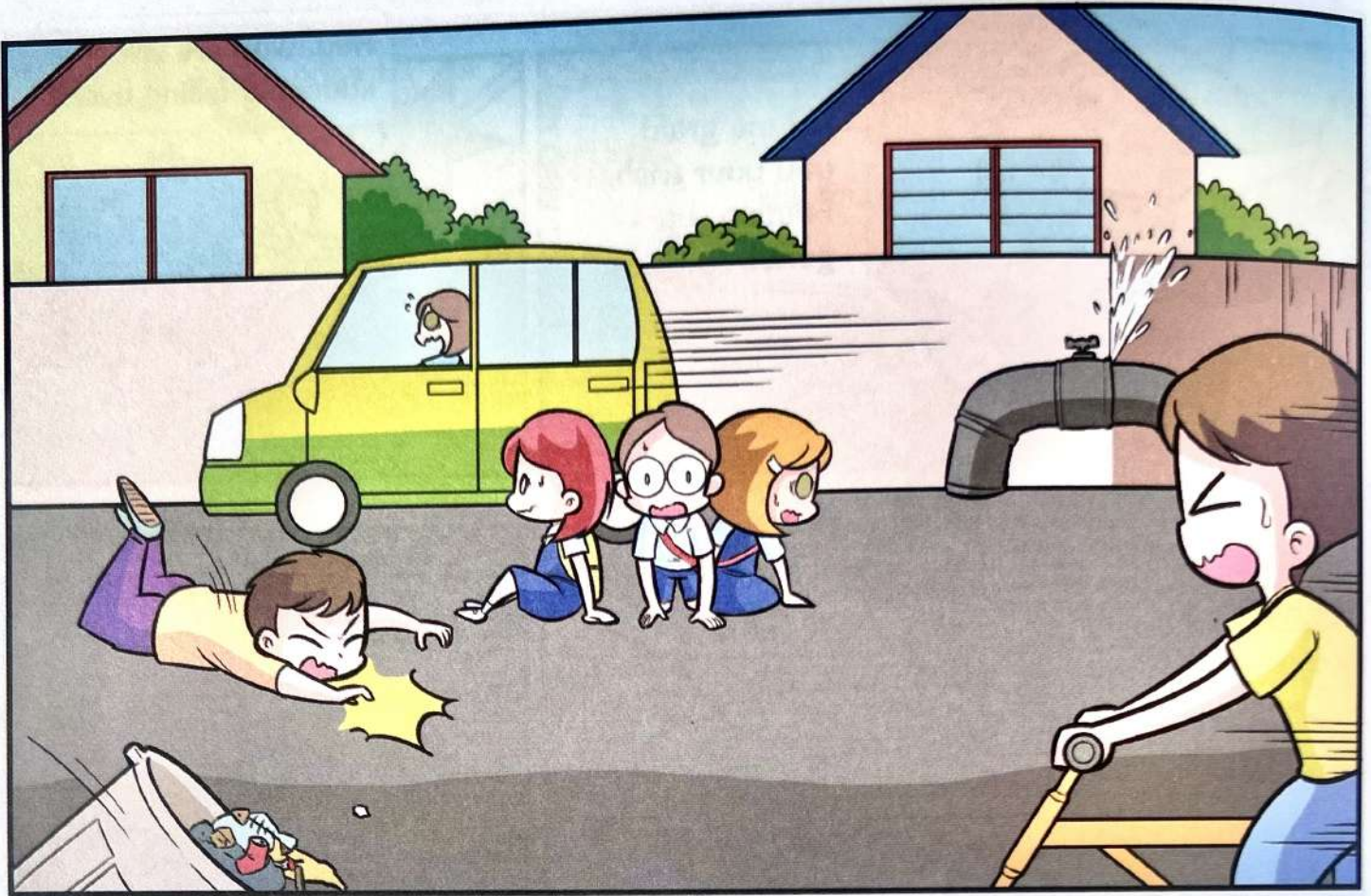


Help! I can't stop
moving!

Interesting Information

Friction can produce heat. That is why we rub over our hands together when it's cold.





Interesting Information

The invention of the wheel helps to reduce friction.





If there was no friction your daily life would be filled with problems. I hope you understand that!



Yes, we do, Sir!



Now, let me give each of you something to reduce friction so it can get you home quickly.



Take care and stay safe!

Thank you, kind sir!

Interesting Information

Lubricants can also reduce friction. Adding lubricant to machine parts helps to reduce friction as well as wear and tear of the parts. This will prolong the life of the machine.





Friction Is Useful

Although friction can cause wear and tear, our daily life would be full of problems without it.



Brakes won't work on vehicles without friction.



Wearing shoes with patterned soles helps to prevent slipping when walking on wet cement or ice.

Friction helps to ignite a fire.



Friction helps to slow us while sliding down a slope.



Science Education Extension:

Enter **YouTube** and key in
"Friction for kids: physics"
(reprint YouTube)