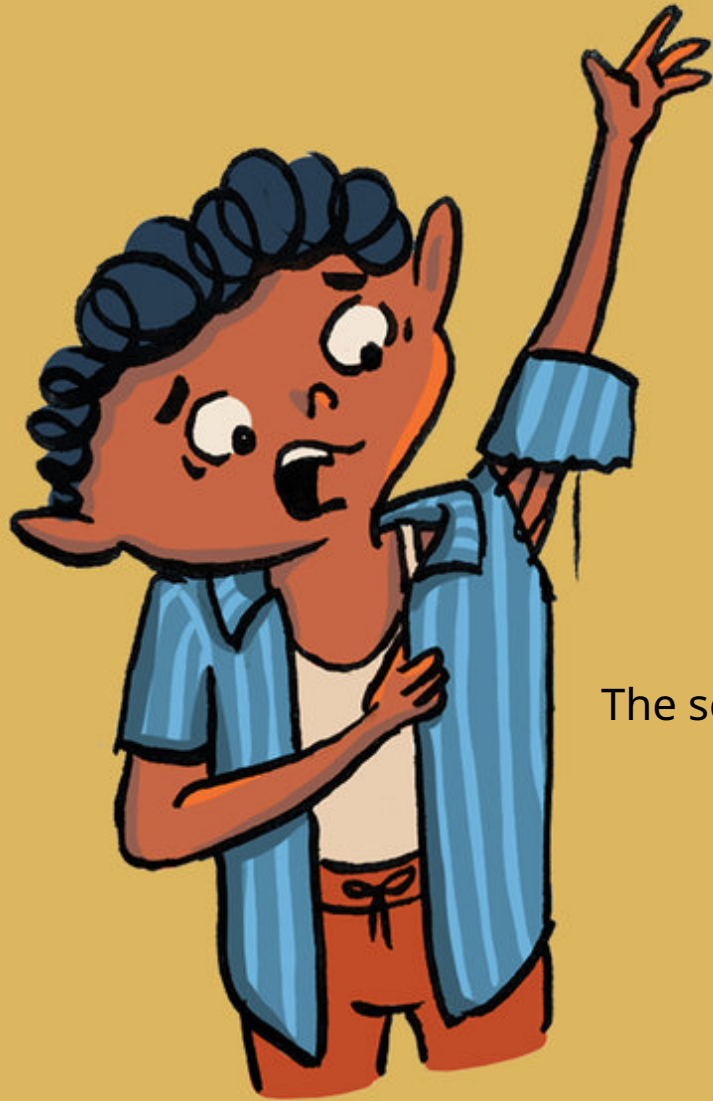




# A Stitch in Time

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**Illustrator:** Ankitha Kini



Khrrrrrrrr...

"Oh no," wails Shyam.  
The seams of his favourite shirt have come apart.  
"I can't wear this shirt anymore, Thatha!"

"Of course you can, silly," his grandfather says.  
"We can repair it!"

Thatha takes a needle and a spool of blue thread.  
He shows Shyam how to stitch  
the seams together.



Shyam's friend Shrisha has come home.

"Let's go cycling," she says.

"In a minute," says Shyam. "Let me iron my shirt first."

He switches on the iron box. But the light doesn't glow, and the iron remains cold.

"Ufff! I'll just wear the crumpled shirt," grumbles Shyam.

"I was at the Repair Mela last week," says Shrisha. "George Uncle, who teaches chemistry in my brother's college, was repairing an iron box.

I watched what he was doing very closely. Let's try to set it right! Do you have a screwdriver?"

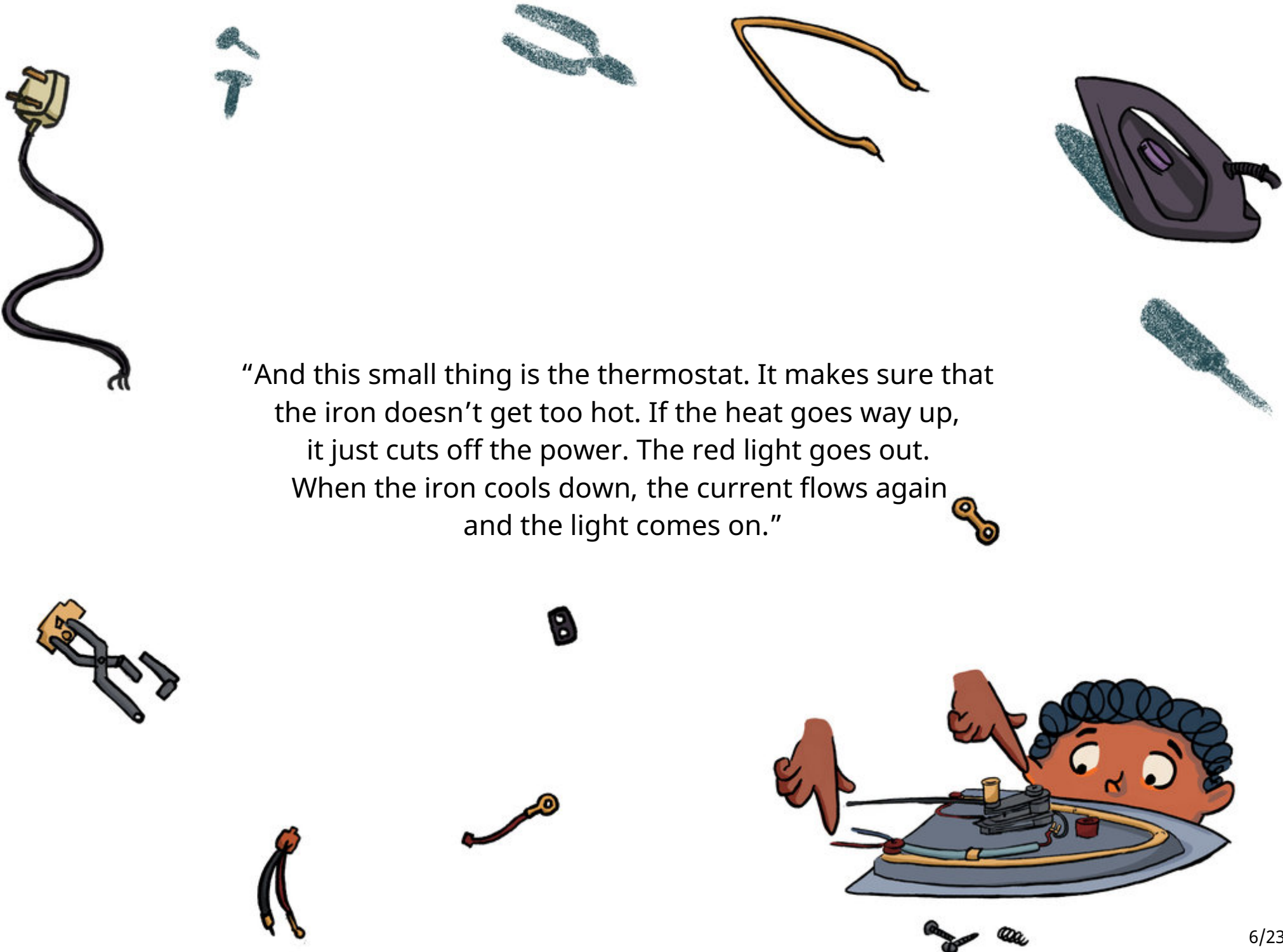




Shyam hunts in the cupboard and gets a screwdriver. Shrisha unscrews the back of the iron.

“See this wire? When you switch on the power, electric current passes through it and heats up the iron plate. This process is called conduction,” says Shrisha.



A collection of various electronic components and tools is scattered around the text. At the top left is a yellow three-prong electrical plug with a black cord. To its right are two blue push-on jumpers, a pair of blue-handled pliers, a curved orange wire, and a black iron. Below the iron is a blue brush. To the right of the text is a small orange component. At the bottom left is a pair of pliers with a yellow handle. Below that is a small black component. To the right of the text is a small orange component. At the bottom right is a cartoon character with blue hair and a red face, wearing a red shirt, pointing at a circuit board. The circuit board has various components including a yellow component, a red component, and a blue component. Below the circuit board are two small black components and a small orange component.

“And this small thing is the thermostat. It makes sure that the iron doesn’t get too hot. If the heat goes way up, it just cuts off the power. The red light goes out. When the iron cools down, the current flows again and the light comes on.”

“Other heating devices must work the same way, right?  
Geysers, kettles, ovens?”

But Shrisha is not listening. She’s peering into the iron.



“What’s wrong?” asks Shyam.

“I don’t think I can repair it.”

“Oh no! Appa and Amma will scold us when they see what we have done to the iron box!”

“We’ll take it to the Repair Mela! They’ll help us.”





Before Shyam's parents can ask them about the iron box, he and Shrisha take it and sneak out on their cycles to the Repair Mela.





"Aunty, can you help us repair this iron box?"  
Shrisha asks Anupama Aunty.

"What's wrong with it?"

"It won't switch on!" says Shrisha.

Anupama Aunty takes out a little box with wires and knobs.

"This is a multimeter," she says. "It checks if all parts of the iron are allowing electric current to flow. Let's start with the plug."

Next, she tests all the other parts, until she comes to a small wire.

“See this wire next to the plug? It’s broken, even though it doesn’t look damaged—there’s your problem!”

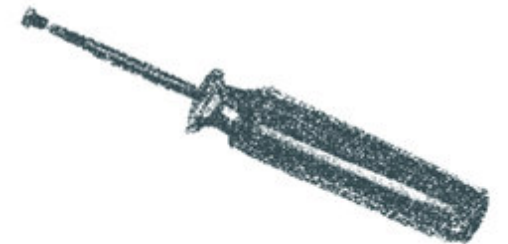




She cuts out the old wire and plug,  
and fixes a new wire and plug to the iron box.

“Let’s test it.”

She switches it on, and the light glows.





After helping out at the Mela and observing repairs for a while, they decide to head home.



“Oh no, the rear tyre has a puncture. Let’s take it to Manigandan Anna!” says Shrisha.

“Puncture? No problem,” says Manigandan Anna, who has a small cycle repair shop in the neighbourhood. He has been invited to the Repair Mela.



He turns the cycle upside down. He takes a pair of tyre levers and pries the tyre away from the metal rim. Soon the inner tube is out.

"Can you see a hole anywhere?" Anna asks the children.

They can't.

"Then how do you tell where the puncture is?" he asks.

The children look at him cluelessly.





He immerses the tube, part by part,  
in a tub half-filled with water.  
At one point, they see small bubbles rising.

“See? That’s where the hole is!”

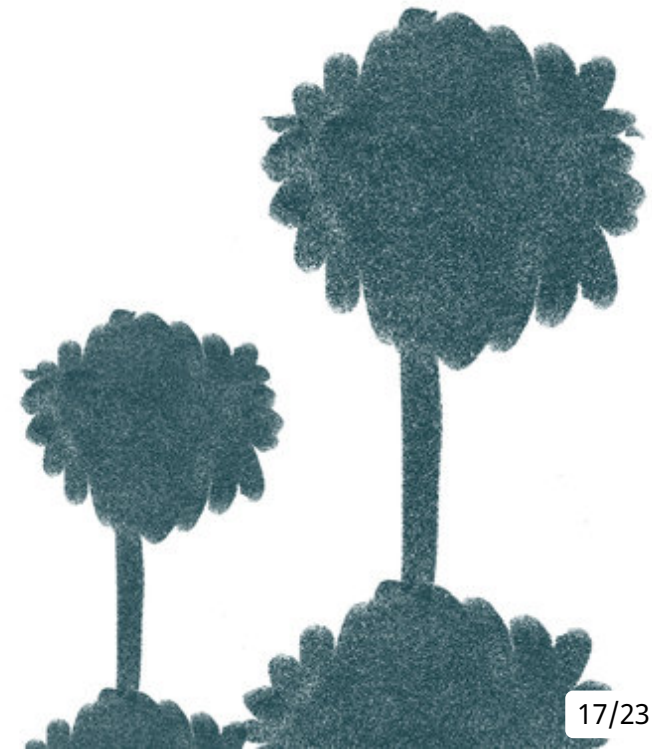
He cuts a small piece of rubber from an old tube.  
After rubbing the surface of the tube  
around the hole with sandpaper,  
he applies a rubber adhesive to the tube  
and the piece of rubber.



“Come, seal this,” he says.

Shyam puts the piece of rubber on the hole and presses it down.

“If not for professionals who fix cycles, umbrellas, footwear and other things, we would have mountains of waste all over!” says Shyam.







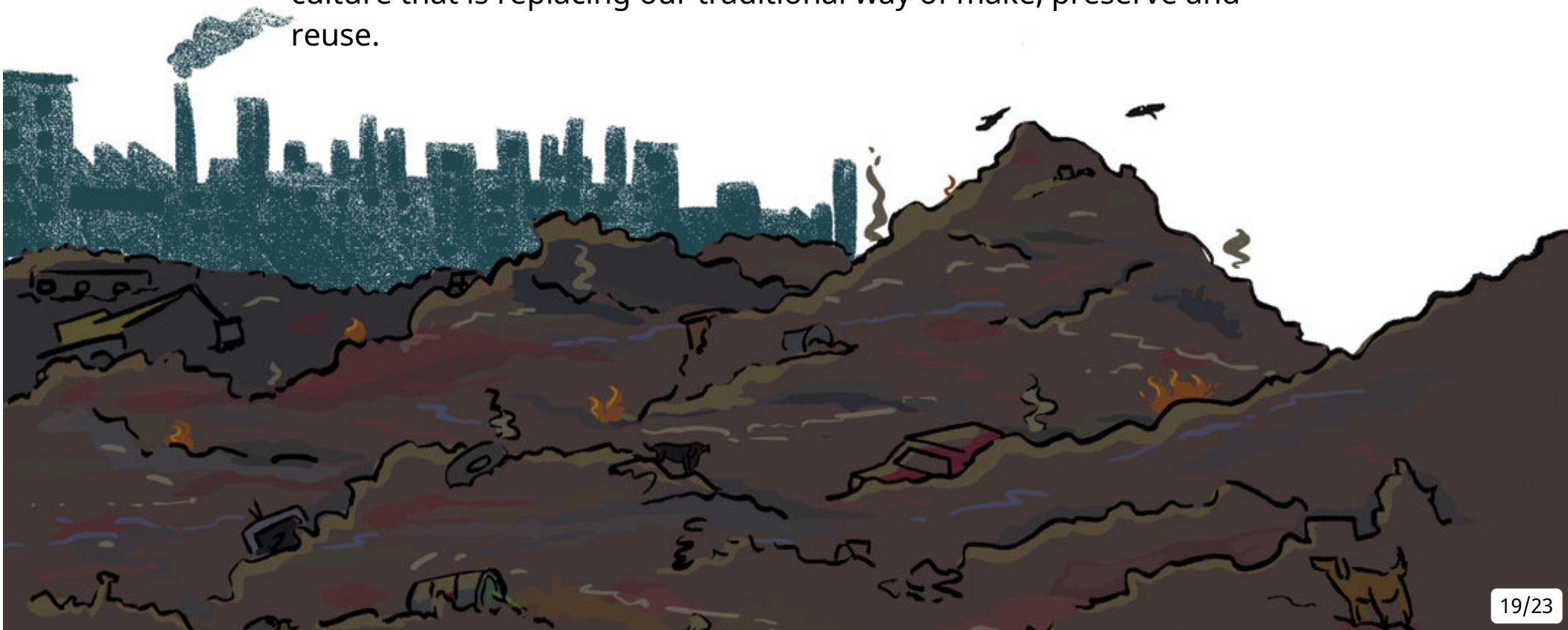
The tyre is fixed,  
the iron is fixed and  
Shrisha and Shyam  
ride back home.

It is a day well spent!



## Don't throw it. Fix it

There is an urgent need to decrease the amount of non-biodegradable waste that humans generate. Repair encourages a more efficient use of resources than the take, make and waste culture that is replacing our traditional way of make, preserve and reuse.



Raw materials used in products often need a lot of energy to be mined and processed to make them usable by manufacturers. The process of repair helps conserve these resources and extends the life of the product. Only when something cannot be repaired should you think of recycling it.





## The tradition of recycling

In India, we have a strong tradition of recycling, whether it is organic waste like food or inorganic waste like clothes. While their numbers have reduced greatly, we still find kabadiwalas who collect old newspaper and recyclable household metal and plastic waste, and street peddlers who take in your old clothes in return for new steel utensils.

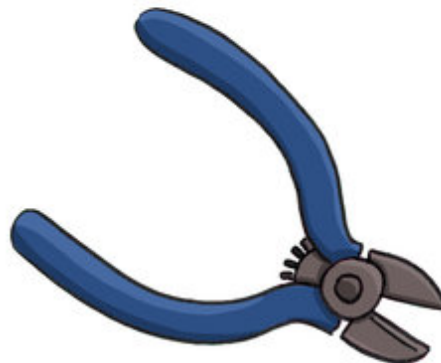
## **Repair Café**

This story is inspired by Repair Café Bengaluru that conducts free workshops where people from different generations come together and keep alive the culture of repairing things. At a Repair Café, you'll find tools and materials to help you make any repairs you need. Repair enthusiasts and professionals like cobblers, umbrella repairers, alteration tailors and watch repairers work with visitors at these workshops.

After any natural calamity, repair professionals are in high demand. In less than three years, Repair Café Bengaluru has prevented over 2,000 kg of items from going to the waste heap. Repair Cafés around the world jointly saved 3,00,000 objects from the waste mountain in 2017.

**Have you used any of these tools?**

If not, get someone to teach  
you to use them.  
This is a very useful skill to have.





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# A Stitch in Time

(English)

First, a ripped shirt and then, a faulty iron box. The day has just begun for Shyam. With everything going wrong one after the other, Shrisha takes him to a Repair Mela where you can fix almost anything.

This is a Level 4 book for children who can read fluently and with confidence.



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