

WHERE

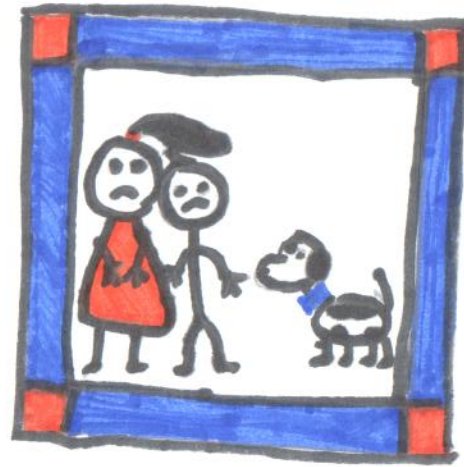
CHALLENGE

METAL MATTERS

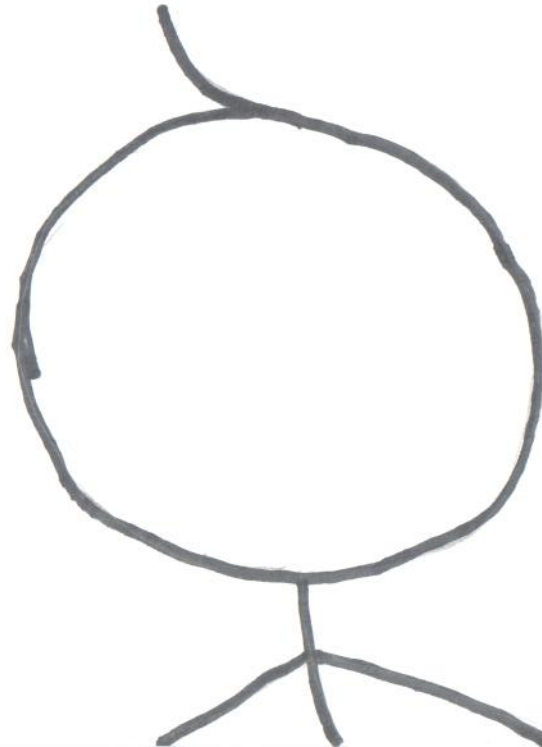


Today we will be telling you about the non-renewable materials in a car for our WHERE challenge. Cars are important to humans. Though some would rely on them more often than others, we can all agree that cars have given us a huge help. Could you imagine how hard it would be for people to live without cars? Think about it. You would only be able to walk, bike or take the bus, train or ride an airplane. How would you buy groceries and household items? What if you want to visit a distant relative? This could soon happen if we run out of non-renewable materials like iron and lead. We'll take you through the world of car materials in this simple book.

By Sophia Arellano and Gialia Bautista



Daniel stared numbly at the pictures on the wall. His eyes reached the picture without his dad and he instantly recalled what happened. His dad had disappeared suddenly, without a word except the note he left Daniel. The note! Daniel reached to his desk for the scrap of paper and read it silently.

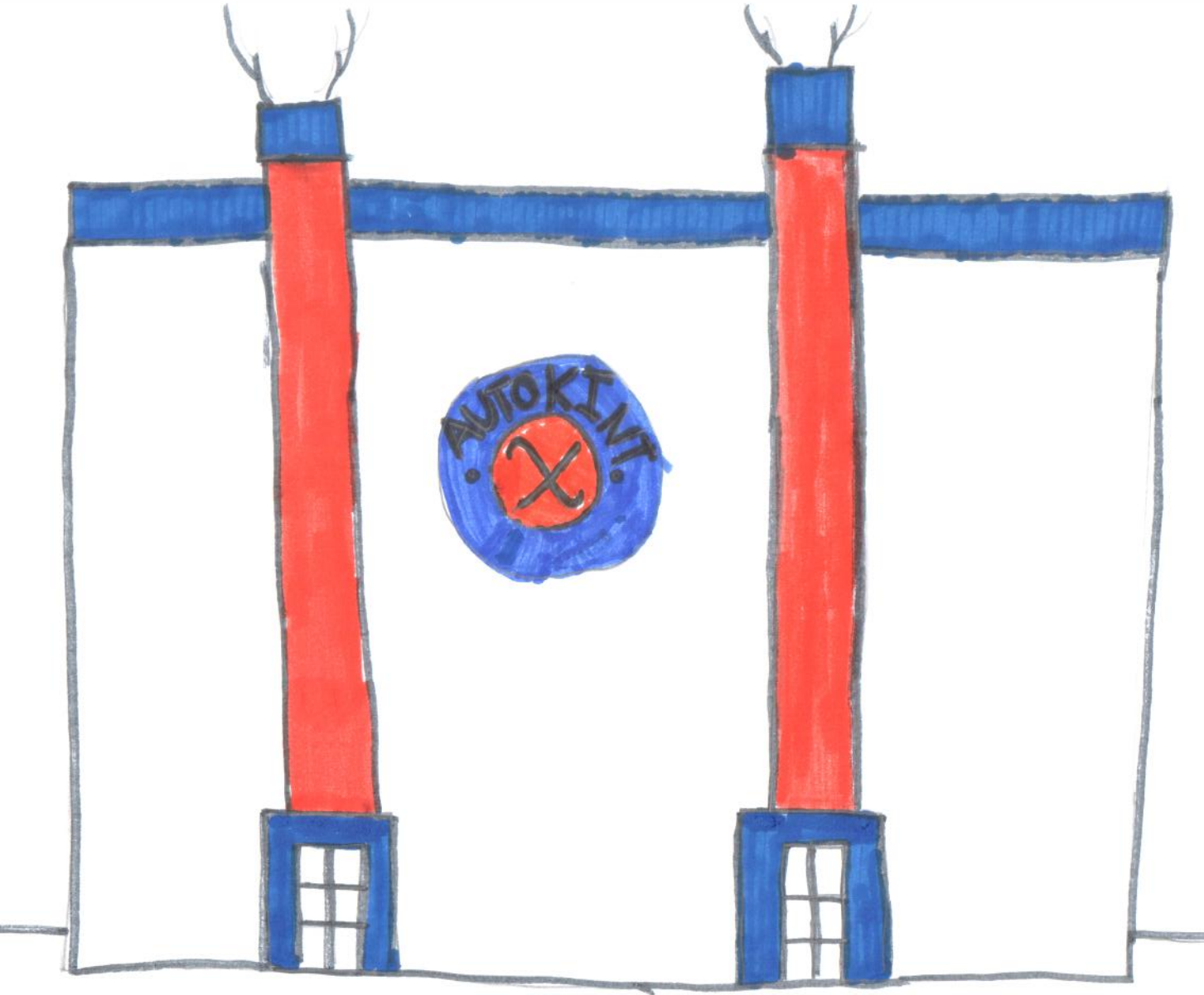


My dear Daniel,

You might be wondering
why I left, and I'm really
sorry, but it had to be done.
I want you to run the
car factory. Take good care!

Loves
Dad

I wish he'd told me why he left... He wants me to run his car factory!? Surely his dad had planned it out for him and left him instructions. Daniel relaxed. "Time to go to the car factory!", muttered Daniel. He left the house and drove with Patches, his dog, to the factory.



Daniel stared with awe at the huge factory. He approached the factory and on the wall was a large sign that said “**Autokint**”. Patches trotted forward and lead Daniel to the entrance. The interior was quite a sight to behold, but Daniel thought something was missing. *Of course! He had no idea how to build a car, nor did his dad tell him anything about it!* Daniel drove back home, thinking about his father’s wish.

He spent hours each day researching about car parts, materials and business. Daniel had made his decision to follow his dad's intentions.



Steel is a mix of iron and carbon. It is also used in many ways because it is very strong. Steel is used to make the parts of the car like the frame and copper electrical wiring.

Plastic is usually made of organic polymers and is used in many everyday items. Plastic is used to make most of the body panels, the fenders, the dashboard and the headlamps.

Lead (Pb) is a soft, heavy metal. Metallic lead has a bluish-white color after being cut but then becomes a dull greyish colour when out in air. Lead can be used to make lead-acid batteries.

Glass is a solid material usually made transparent and is used in many ways. It is made of sand, soda ash and other materials. Glass is obviously used for the windows.

Rhodium (Rh) is an extremely rare, silvery-white, hard metal. It can be found in Ural mountains, South Africa and Sudbury. Rhodium can also be used to make the catalytic convertor.

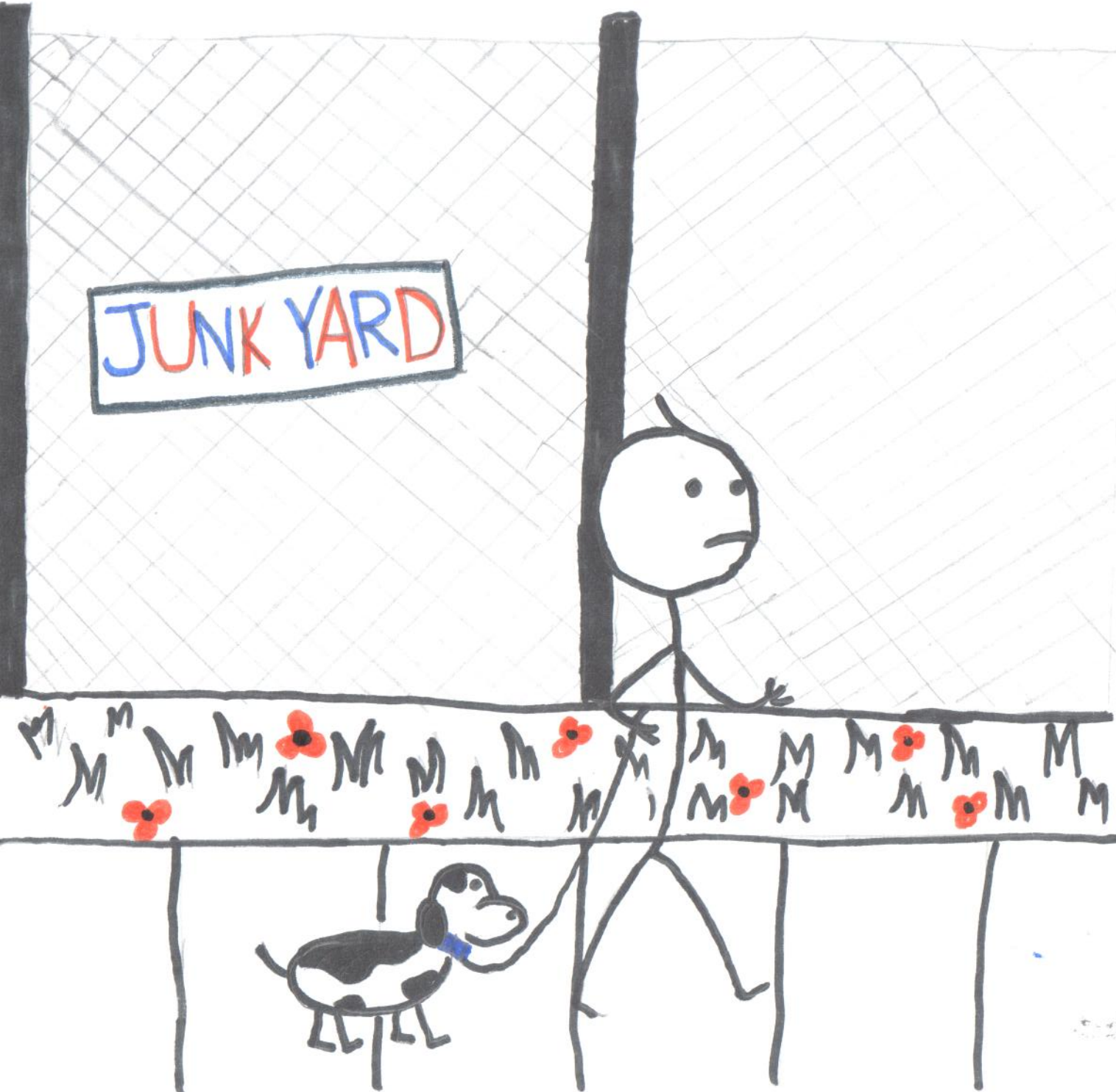
Platinum (Pt) is a dense, malleable, ductile, highly unreactive, precious, grey-white metal. 2 places it can be found in are the Ural mountains and the Sudbury Basin. Platinum can be used to also make the catalytic convertor.

Aluminum (Al) is a silvery white, soft, non-magnetic, ductile metal. Australia, Brazil and New Guinea are the top three countries where it is found. Aluminum can be found in the parts of a car like the radiator and engine block.

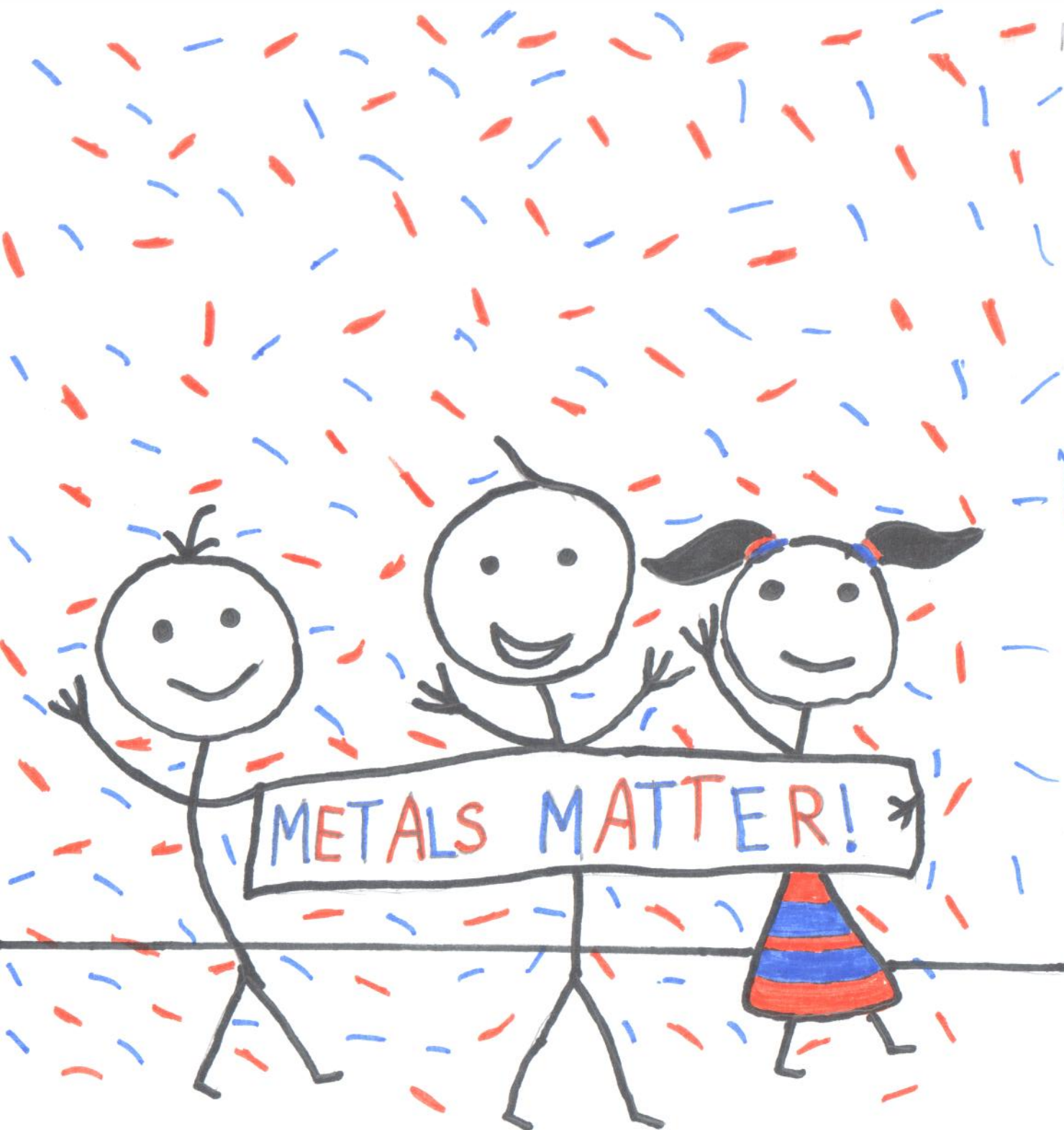
Palladium (Pd) is a rare, lustrous, silvery-white metal. In 2007 the top three countries it could be found in were Russia, South Africa and Canada. Palladium can be found in the parts of a car like the catalytic convertor.



After weeks of hard work, Daniel sold his first car and made lots of money. He was pleased with his job and continued to sell more and more cars. Daniel sold cars with an assortment of colours, and he even created various car shapes and designs. *Thanks dad.*



One day, Daniel went out for a brisk walk with Patches. As he passed the junkyard, he couldn't help but frown at the amount of metal and car parts in huge heaps. Daniel thought about miners. They could always mine more, right? But Daniel realized it was wrong. Once they had mined all the non-renewable material in the earth, there would be no more. Daniel thought about it for a long time



He decided to shut down the car factory to save metal! It was quite a wild decision, but Daniel knew in his mind that it was the right thing to do. He started a big campaign with the money he had earned and started his project. Other people joined in too, and they all worked together to save metal. *This is my job, to save the earth and its precious metals. Besides he thought, if I didn't do this, who else would have?*

The End

Fun Facts:

- There are 1 billion cars currently in use on earth
- The average car has 30,000 parts
- About 165,000 cars are produced everyday
- The average American spends about 38 hours a year stuck in traffic
- The first car accident happened in 1891, in Ohio
- There are more cars in L.A. than people
- Cars have been around since 1769
- 19 people can be crammed into a smart car

We got our information from Wikipedia, Fact slides and Auto.net, plus a few other sites. Thank you for reading or listening to our story and we hope you learned something about cars.