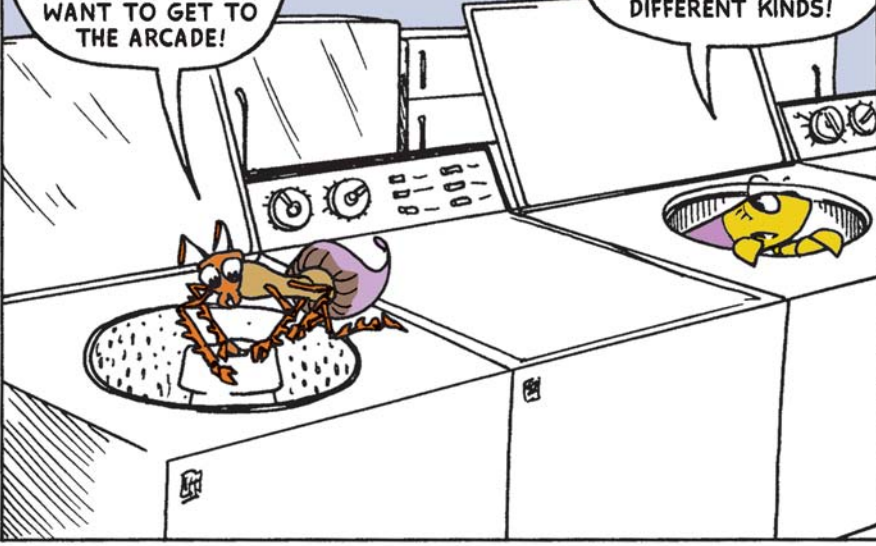


THANKS FOR BEING PATIENT AS WE SHOP FOR A NEW WASHING MACHINE, SCORPY. I KNOW YOU REALLY WANT TO GET TO THE ARCADE!

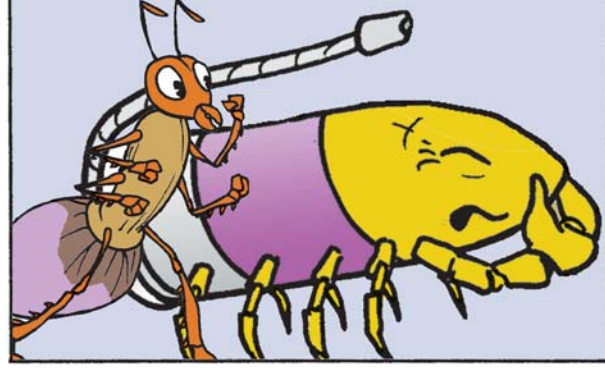
Sears and Roebug

THAT'S OKAY, ANTE. I KNOW WE NEED A NEW WASHER AT HOME, BUT I NEVER KNEW THERE WERE SO MANY DIFFERENT KINDS!



THERE ARE LOTS OF CHOICES FOR SURE, SCORPY. BUT JUST THINK, A LONG TIME AGO THERE WERE NO SUCH THINGS AS WASHING MACHINES!

WHAT?? NO WASHING MACHINES?? I BET EVERYONE'S CLOTHES WERE REALLY DIRTY BACK THEN!



HEY, I THOUGHT YOU WANTED TO BUY A NEW WASHING MACHINE??

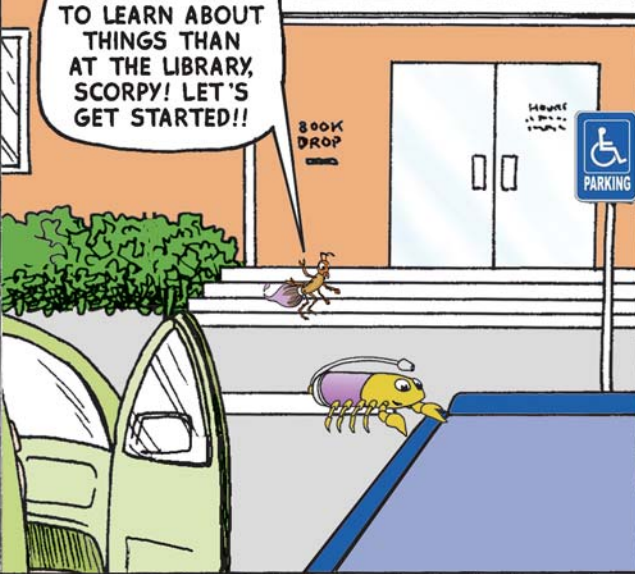
WE WILL BUY A NEW ONE SOON ... BUT LET'S SEE HOW CERTAIN MACHINES HAVE MADE OUR LIVES EASIER! THE LAUNDRY CAN WAIT ... YOUR LEARNING CAN'T!!

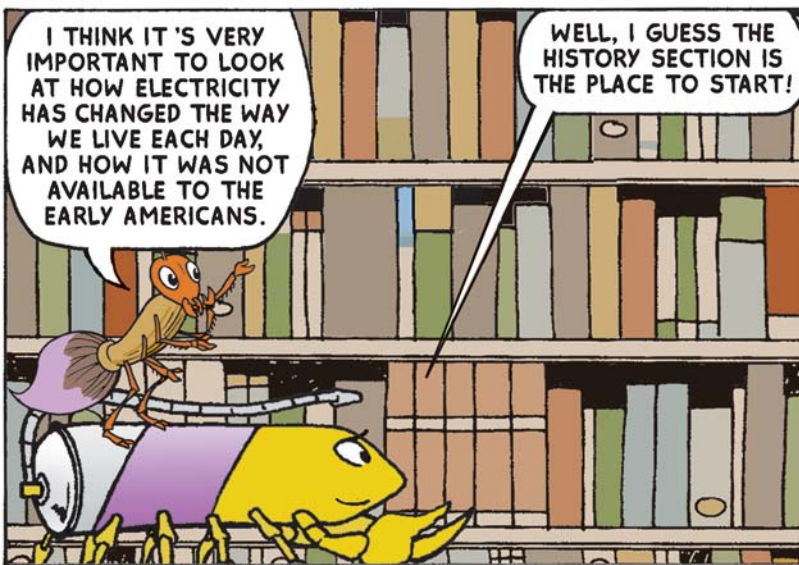


WHERE ARE WE GOING?

THERE'S NO BETTER PLACE TO LEARN ABOUT THINGS THAN AT THE LIBRARY, SCORPY! LET'S GET STARTED!!

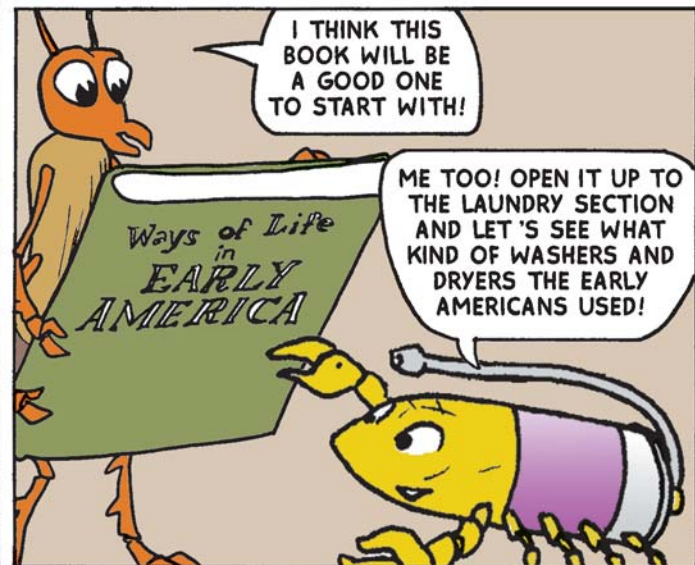
PUBLIC LIBRARY





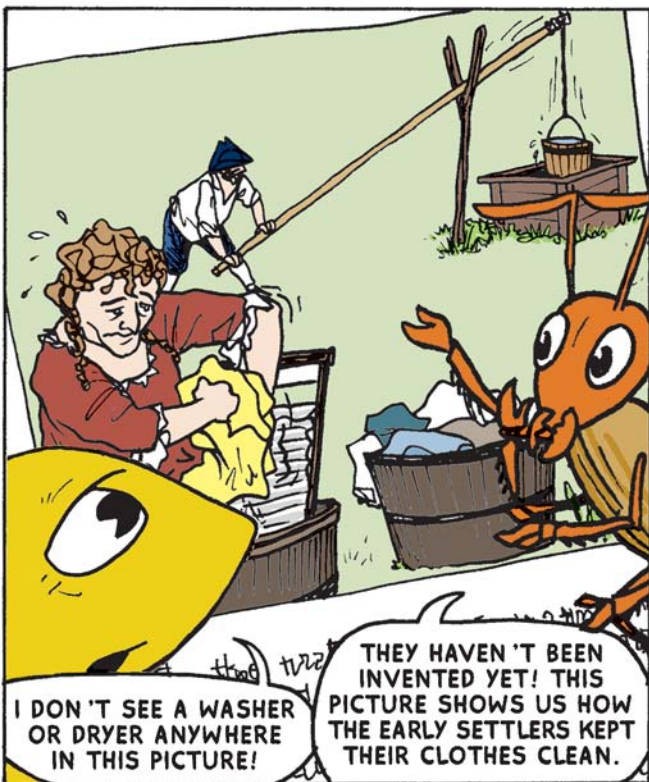
I THINK IT'S VERY IMPORTANT TO LOOK AT HOW ELECTRICITY HAS CHANGED THE WAY WE LIVE EACH DAY, AND HOW IT WAS NOT AVAILABLE TO THE EARLY AMERICANS.

WELL, I GUESS THE HISTORY SECTION IS THE PLACE TO START!



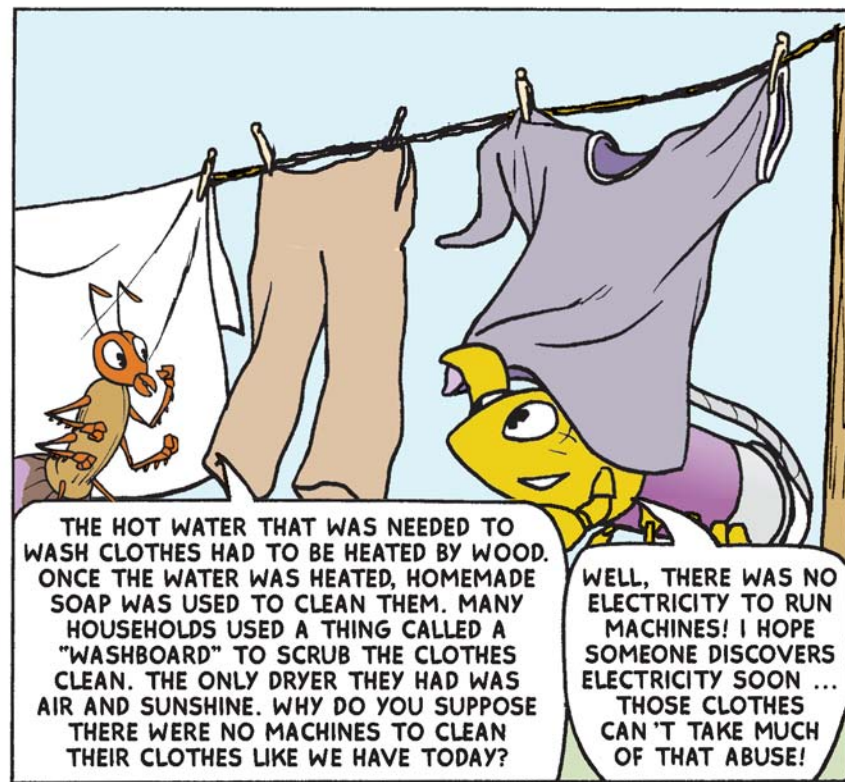
I THINK THIS BOOK WILL BE A GOOD ONE TO START WITH!

ME TOO! OPEN IT UP TO THE LAUNDRY SECTION AND LET'S SEE WHAT KIND OF WASHERS AND DRYERS THE EARLY AMERICANS USED!




I DON'T SEE A WASHER OR DRYER ANYWHERE IN THIS PICTURE!

THEY HAVEN'T BEEN INVENTED YET! THIS PICTURE SHOWS US HOW THE EARLY SETTLERS KEPT THEIR CLOTHES CLEAN.




THE HOT WATER THAT WAS NEEDED TO WASH CLOTHES HAD TO BE HEATED BY WOOD. ONCE THE WATER WAS HEATED, HOMEMADE SOAP WAS USED TO CLEAN THEM. MANY HOUSEHOLDS USED A THING CALLED A "WASHBOARD" TO SCRUB THE CLOTHES CLEAN. THE ONLY DRYER THEY HAD WAS AIR AND SUNSHINE. WHY DO YOU SUPPOSE THERE WERE NO MACHINES TO CLEAN THEIR CLOTHES LIKE WE HAVE TODAY?


WELL, THERE WAS NO ELECTRICITY TO RUN MACHINES! I HOPE SOMEONE DISCOVERS ELECTRICITY SOON ... THOSE CLOTHES CAN'T TAKE MUCH OF THAT ABUSE!



I KNOW WHO THAT IS! THAT'S BENJAMIN FRANKLIN! HE WAS THE ONE THAT DISCOVERED ELECTRICITY!




HE DID NOT ACTUALLY DISCOVER ELECTRICITY, BUT HE LEARNED HOW TO CONDUCT IT. HE THOUGHT THAT LIGHTNING WAS ACTUALLY AN ELECTRICAL CURRENT. HE TIED A METAL KEY TO A KITE, AND FLEW IT IN A THUNDERSTORM. HE FELT A SHOCK WHEN HE PUT HIS HAND NEAR THE KEY. HE PROVED HIS HYPOTHESIS, BUT WAS LUCKY TO HAVE SURVIVED THIS EXPERIMENT.



THE RESULT OF THIS EXPERIMENT INSPIRED AN IMPORTANT INVENTION, THE LIGHTNING ROD! WHEN ATTACHED TO A HOUSE, THE ROD ATTRACTS THE LIGHTNING AND DIRECTS IT TO THE GROUND.

SHOCKING!



LEARNING TO GENERATE ELECTRICITY HAS REALLY CHANGED OUR LIVES. IT IS USED TODAY TO POWER MUCH OF OUR MACHINERY. MACHINES HELP MAKE OUR LIVES EASIER.

I GUESS WE BETTER GET BACK TO THE STORE AND PICK OUT OUR NEW WASHING MACHINE ... I'M READY FOR SOME GOOD, CLEAN FUN!

WHEN WILL THEY GET HERE WITH OUR NEW WASHER AND DRYER? I HOPE THEY DIDN'T GET LOST LOOKING FOR OUR HOUSE!

THEY WILL BE HERE SOON, SCORPY. IF THEY ARE LOST, THEY WILL CALL FOR DIRECTIONS.

YOU KNOW, ANTE, THE TELEPHONE IS ANOTHER COOL INVENTION! WHO INVENTED IT?

I'M GLAD YOU ASKED! WE CAN LEARN ABOUT THE INVENTOR OF THE TELEPHONE WHILE WE ARE WAITING!

THE TELEPHONE IS A MEANS OF COMMUNICATING, SCORPY. NO WAY OF COMMUNICATING HAS CHANGED OUR LIVES MORE.

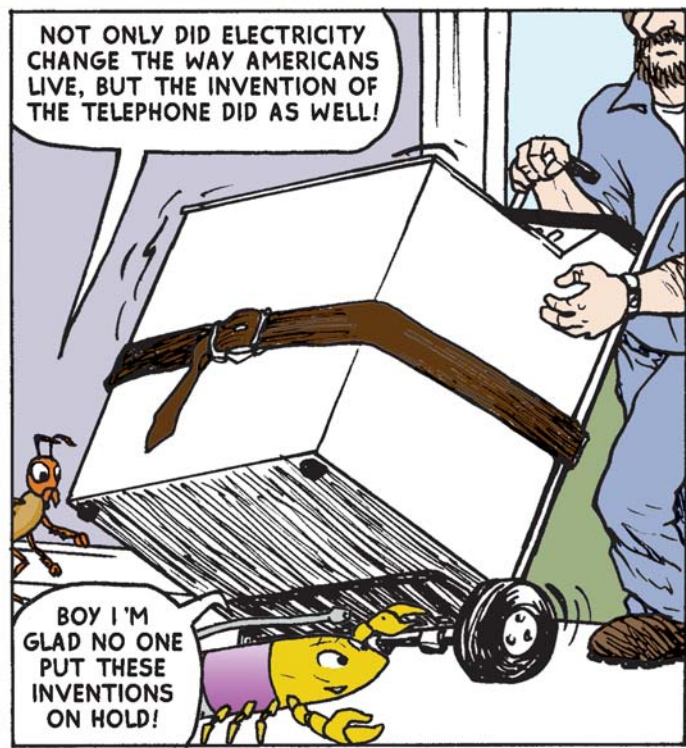
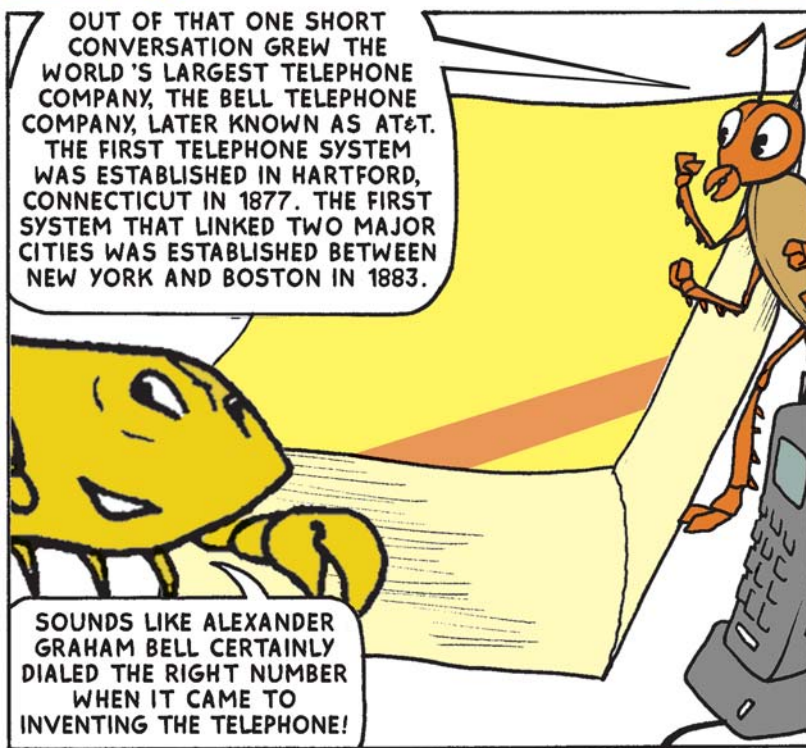
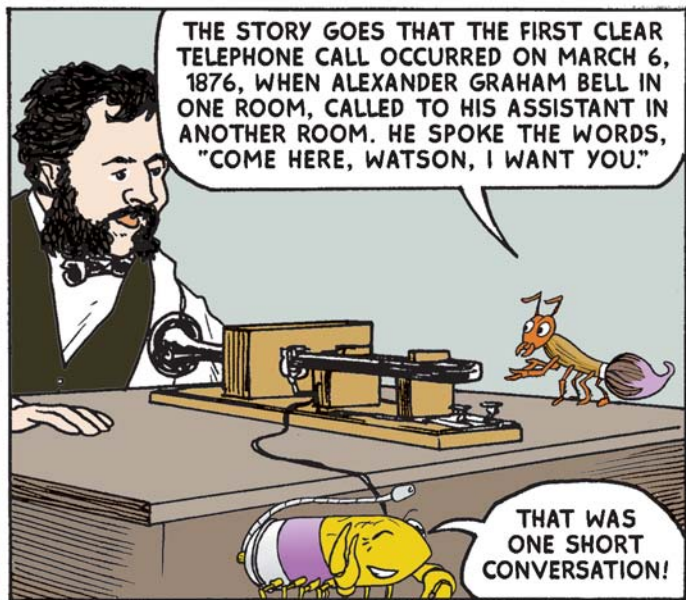
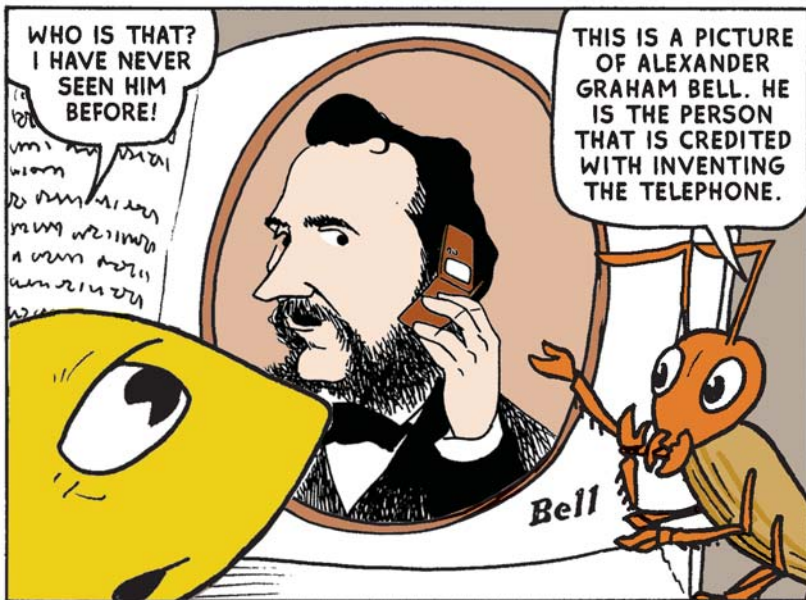
I WILL AGREE WITH THAT, ANTE! BOY, HAVE TELEPHONES CHANGED OVER THE YEARS!

THE TELEPHONE CONVERTS SOUND INTO ELECTRICAL IMPULSES AND THEN BACK TO A TONE THAT SOUNDS LIKE THE ORIGINAL VOICE.

NOW THAT'S WHAT I CALL, THE KEY TO COMMUNICATION!

ELECTROMAGNET

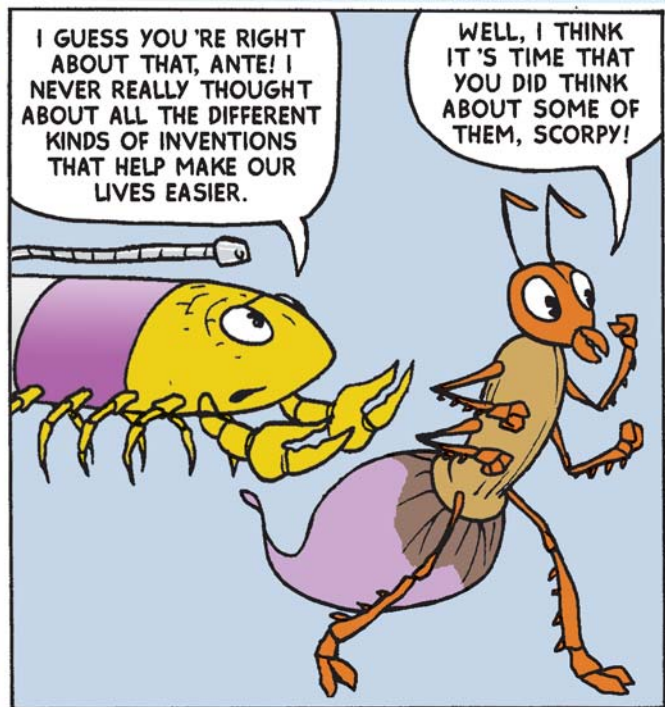
THE FLOW OF ELECTRONS





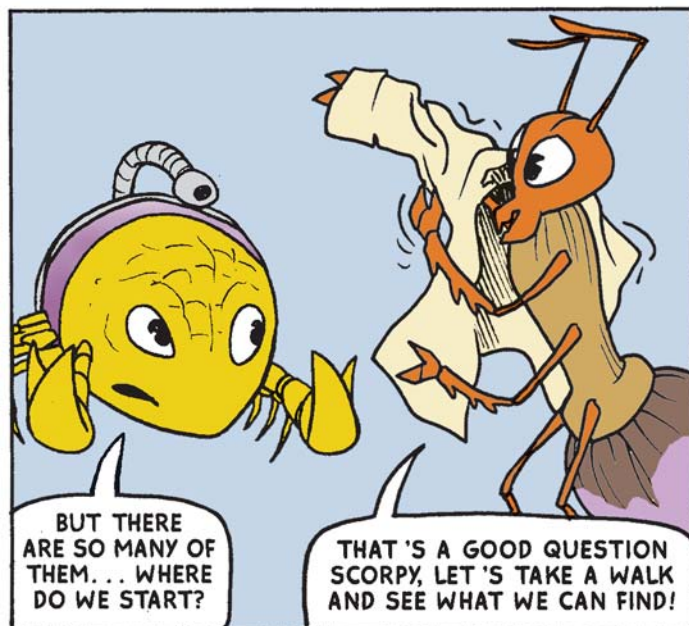
I LOVE OUR NEW WASHER AND DRYER, ANTE! I'M SO GLAD SOMEONE INVENTED THESE MACHINES!

I AM TOO SCORPY! THERE ARE SO MANY INVENTIONS AROUND TODAY THAT HELP US. THIS WASHER AND DRYER ARE JUST ONE EXAMPLE!



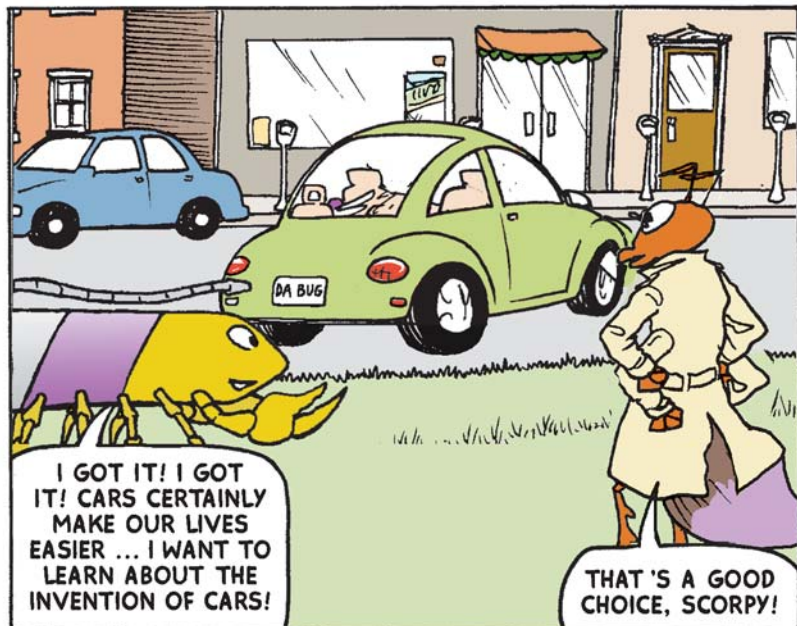
I GUESS YOU'RE RIGHT ABOUT THAT, ANTE! I NEVER REALLY THOUGHT ABOUT ALL THE DIFFERENT KINDS OF INVENTIONS THAT HELP MAKE OUR LIVES EASIER.

WELL, I THINK IT'S TIME THAT YOU DID THINK ABOUT SOME OF THEM, SCORPY!



BUT THERE ARE SO MANY OF THEM... WHERE DO WE START?

THAT'S A GOOD QUESTION SCORPY, LET'S TAKE A WALK AND SEE WHAT WE CAN FIND!



I GOT IT! I GOT IT! CARS CERTAINLY MAKE OUR LIVES EASIER... I WANT TO LEARN ABOUT THE INVENTION OF CARS!

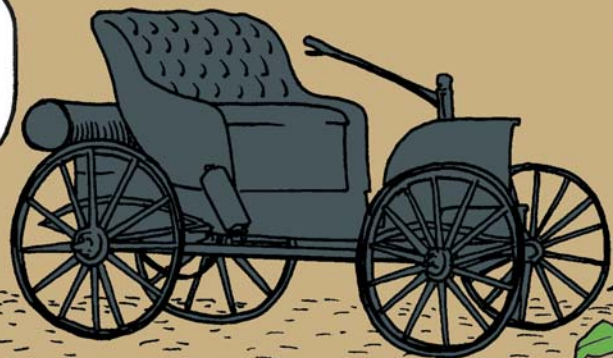
THAT'S A GOOD CHOICE, SCORPY!

THERE ARE SO MANY CARS TO CHOOSE FROM!

THERE ARE LOTS OF CHOICES TODAY, SCORPY! BUT THERE WAS A TIME WHEN THE CHOICES OF CARS WERE VERY LIMITED.

WHAT KIND OF CONTRAPTION IS THAT?

THAT IS A PICTURE OF ONE OF THE FIRST AUTOMOBILES, SCORPY! THESE VEHICLES WERE KNOWN AS A "HORSELESS CARRIAGE."



THOSE PEOPLE SHOULD GET THOSE HORSES OFF THE STREETS... THAT'S NOT SAFE!

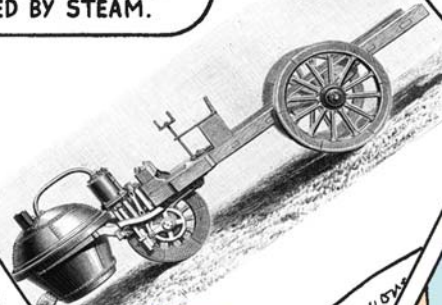
History of the Automobile

REMEMBER, SCORPY, THAT BEFORE CARS WERE INVENTED, THE ONLY TRANSPORTATION THAT PEOPLE HAD WERE HORSES AND WAGONS! THAT'S WHY THESE EARLY CARS WERE CALLED HORSELESS CARRIAGES!

SO, IT WAS THE CARS THAT MADE IT UNSAFE BACK THEN HUH?

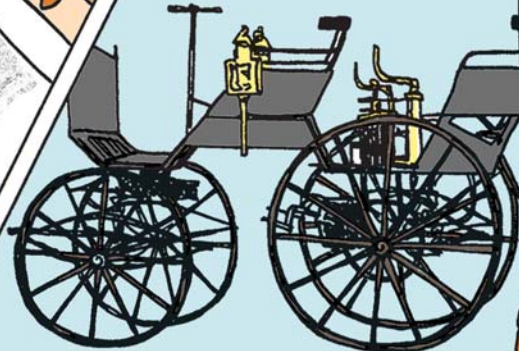
MANY PEOPLE FEEL THAT THE AUTOMOBILE IS THE MOST REVOLUTIONARY INVENTION IN THE HISTORY OF TRANSPORTATION. I THINK WE NEED TO LOOK AT HOW THE AUTOMOBILE HAS DEVELOPED OVER THE YEARS!

THE EARLIEST ANCESTOR OF THE MODERN AUTOMOBILE IS PROBABLY THE "FARDIER," A THREE-WHEELED VEHICLE THAT WAS POWERED BY A STEAM ENGINE. THIS MACHINE WAS SLOWER THAN A HORSE DRAWN VEHICLE AND WAS NEVER PRODUCED. AMEDEE BOLLEE, A FRENCHMAN, ALSO BUILT A 12 PASSENGER CAR POWERED BY STEAM.



I CAN SEE WHY THESE EARLY AUTOMOBILES NEVER REALLY CAUGHT ON ... A STEAM ENGINE DOESN'T REALLY GO VERY FAST!

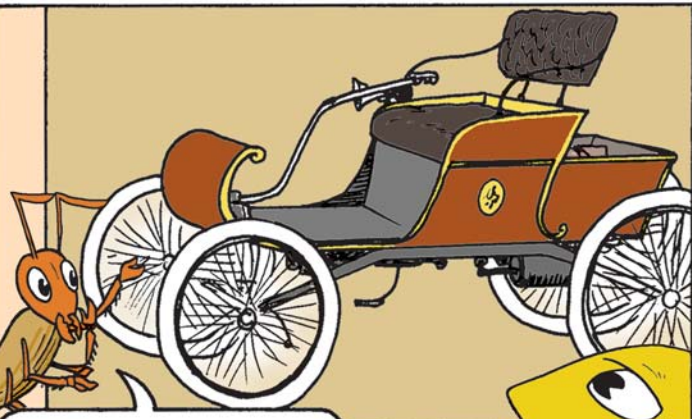
First Daimler



THE VEHICLES THAT BEGAN TO CHANGE TRANSPORTATION WERE BUILT IN GERMANY IN 1889. GOTTLIEB DAIMLER AND WILHEIM MAYBACH BUILT THE VERY FIRST AUTOMOBILE POWERED BY A GASOLINE ENGINE. IT TRAVELED AT 10 MPH. KARL BENZ, ANOTHER GERMAN, ALSO BUILT A GASOLINE POWERED AUTOMOBILE THAT SAME YEAR.

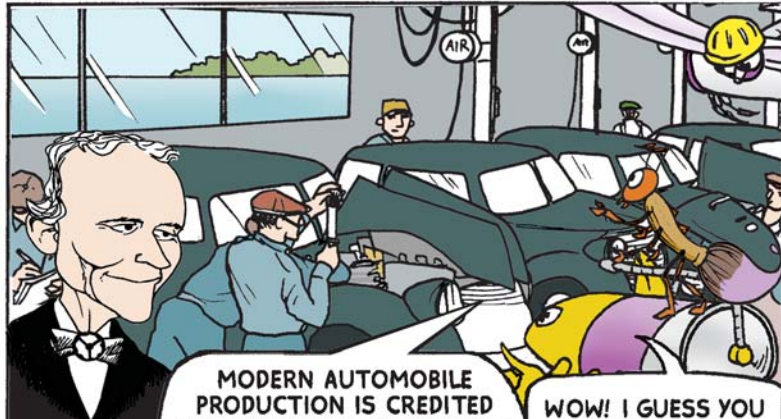
I KNOW THAT NAME! BENZ ... AS IN MERCEDES-BENZ!

THE FIRST AUTOMOBILE TO BE PRODUCED IN QUANTITY WAS THE 1901 CURVED DASH OLDSMOBILE, WHICH WAS BUILT IN THE UNITED STATES BY RANSOM E. OLDS.



I KNOW THAT NAME TOO!! OLDSMOBILE ... THEY ARE STILL BEING MADE TODAY!

MODERN AUTOMOBILE PRODUCTION IS CREDITED TO HENRY FORD OF DETROIT, MICHIGAN. MR. FORD BEGAN PRODUCING HIS MODEL T IN 1908, AND BY 1927 OVER 18 MILLION CARS HAD ROLLED OFF THE ASSEMBLY LINE.



WOW! I GUESS YOU COULD SAY THAT WHEN IT COMES TO AUTOMOBILE PRODUCTION, HE WAS IN THE DRIVER'S SEAT!



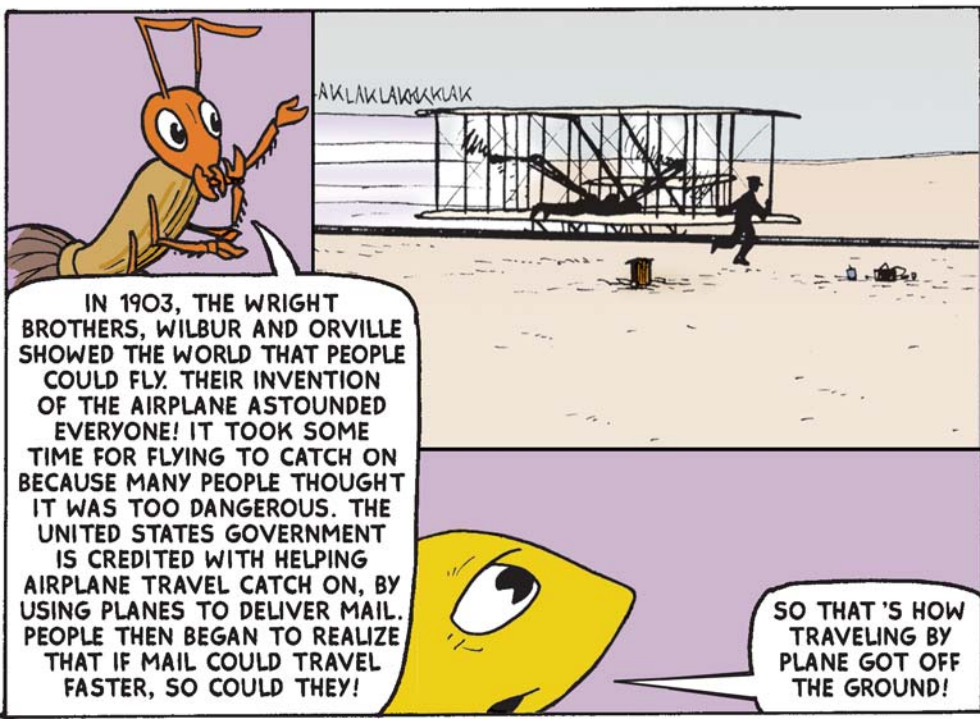
I HOPE YOU LEARNED SOMETHING ABOUT THE INVENTION OF THE AUTOMOBILE, SCORPY.

I SURE DID! NOW THERE'S ANOTHER INVENTION THAT REALLY HELPS MAKE GETTING FROM ONE PLACE TO ANOTHER QUICK AND EASY ... THE AIRPLANE!



THERE'S NO BETTER PLACE TO LEARN ABOUT THE HISTORY OF AIRPLANES THAN RIGHT HERE AT THE AIRPORT!

THIS IS SO COOL!



IN 1903, THE WRIGHT BROTHERS, WILBUR AND ORVILLE SHOWED THE WORLD THAT PEOPLE COULD FLY. THEIR INVENTION OF THE AIRPLANE ASTOUNDED EVERYONE! IT TOOK SOME TIME FOR FLYING TO CATCH ON BECAUSE MANY PEOPLE THOUGHT IT WAS TOO DANGEROUS. THE UNITED STATES GOVERNMENT IS CREDITED WITH HELPING AIRPLANE TRAVEL CATCH ON, BY USING PLANES TO DELIVER MAIL. PEOPLE THEN BEGAN TO REALIZE THAT IF MAIL COULD TRAVEL FASTER, SO COULD THEY!

SO THAT'S HOW TRAVELING BY PLANE GOT OFF THE GROUND!



AIR TRAVEL IS ANOTHER EXAMPLE OF AN INVENTION THAT MAKES OUR LIVES EASIER!

I SHOULD SAY SO, ANTE! AIRPLANE TRAVEL IS ONE INVENTION THAT KEEPS US SOARING!!

