

In 1874, while living in Boston, Massachusetts, Bell continued to teach deaf students to speak.

You force air up from your lungs into your throat. Vibrations in your throat will make sound.

Oooo...

Oooooo...

He also found time to invent.

When this machine works, people will be able to send messages using sounds.

If I can send different sounds at the same time, I can send more than one message at a time.

Then telegraph operators just have to listen for one sound.

In 1874, Bell tried filing a patent for his harmonic telegraph. A patent would give him the right to make and sell his invention in the United States.

I'm sorry, Mr. Bell, but you're not a U.S. citizen. I have to see your invention work before I can give you a patent.

I'm just following the law.

But I'm not sure how long that will take.

After his patent problems, Bell wasn't sure what to do next. Hoping to improve his telegraph ideas, he measured sound waves. Bell studied how sound waves traveled through a model of the human ear.



Bell noticed that the sound vibrations in the ear's this membrane help people hear sounds.



Could sound be produced through vibrations on steel or another material? What might happen then?

This research led Bell to his idea for the telephone.

Madam Walker made up her mind that she was going to sell her hair preparation. She named her product Wonderful Hair Grower.

Madam Walker began selling her product to women in her church and neighborhood.

Good morning, ma'am. May I demonstrate my Wonderful Hair Grower?

I don't have much money.

My formula is only 25 cents.

Word spread fast about Madam Walker's hair grower. Soon, she opened up a small salon in her home.

First, I'll massage your scalp. Then I'll rinse it with carbolic acid.

Acid? That will burn my scalp!

Don't you worry. It's very safe. It will help your scalp grow hair better.



After the success of her hair grower, Madam Walker quickly went to work on new products.

Try my new shampoo. I made it from vegetables.

That looks like a plain old bar of soap.

Madam Walker found that demonstrating her products often made her customer's want to buy them.

That smells good. Is that lilac?

Yes, it is, ma'am.

My scalp feels so good. I'll buy two tins, please.

Very early in her career, Madam Walker understood the importance of good advertising.

This ad says that she can help us improve our hair and make it grow better.

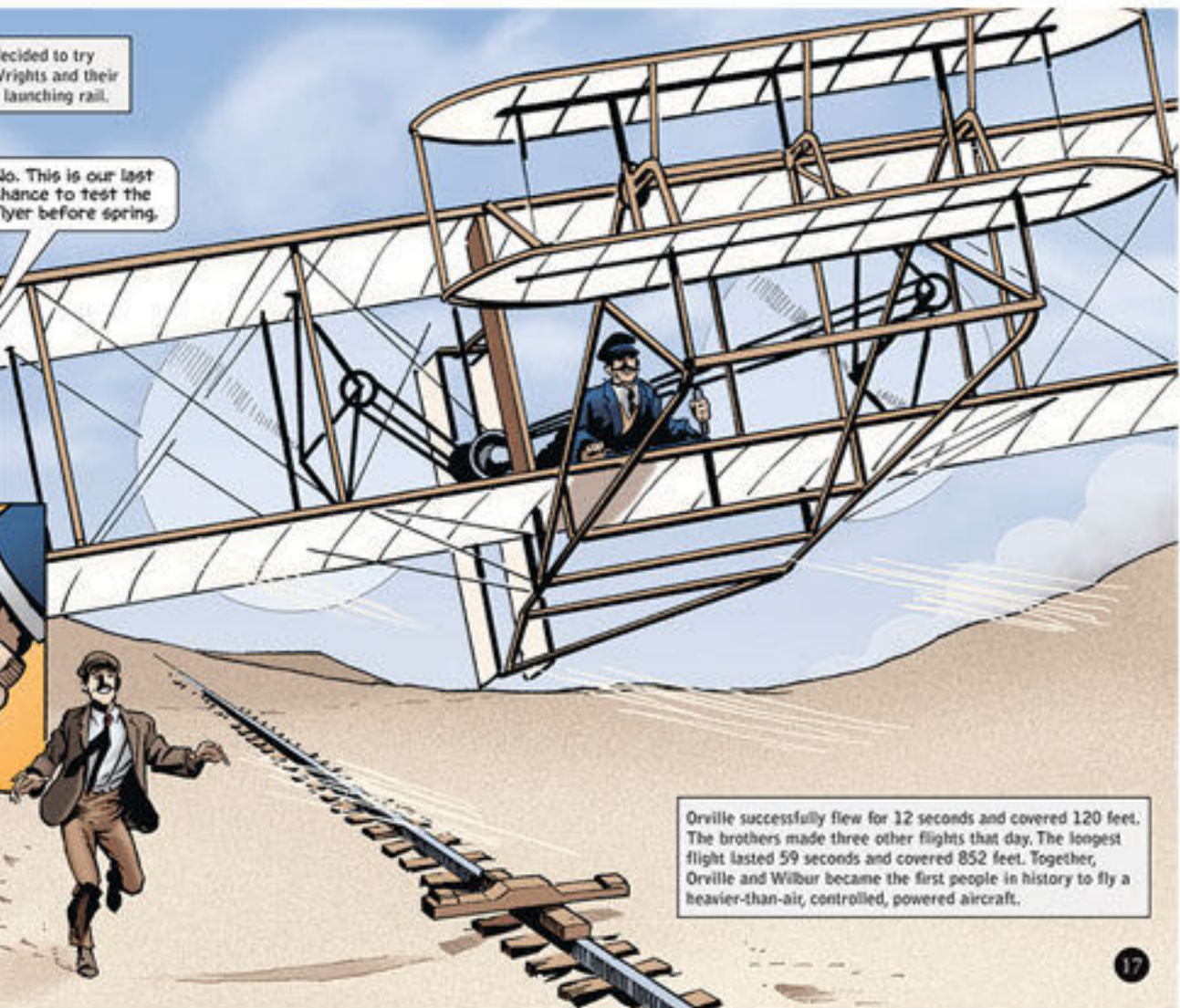
And she doesn't charge too much. Only 50 cents for a scalp treatment.

Well, you can try it if you want to, but I say my hair is just fine the way it is.

On December 17, 1903, Orville and Wilbur decided to try one last flight. By 10:30 that morning, the Wrights and their crew had the Flyer positioned on its wooden launching rail.

The wind is still blowing hard. Maybe you shouldn't fly today.

No. This is our last chance to test the Flyer before spring.



Orville successfully flew for 12 seconds and covered 120 feet. The brothers made three other flights that day. The longest flight lasted 59 seconds and covered 852 feet. Together, Orville and Wilbur became the first people in history to fly a heavier-than-air, controlled, powered aircraft.