

Mister Magnificent's Magical Merrimack Adventure!

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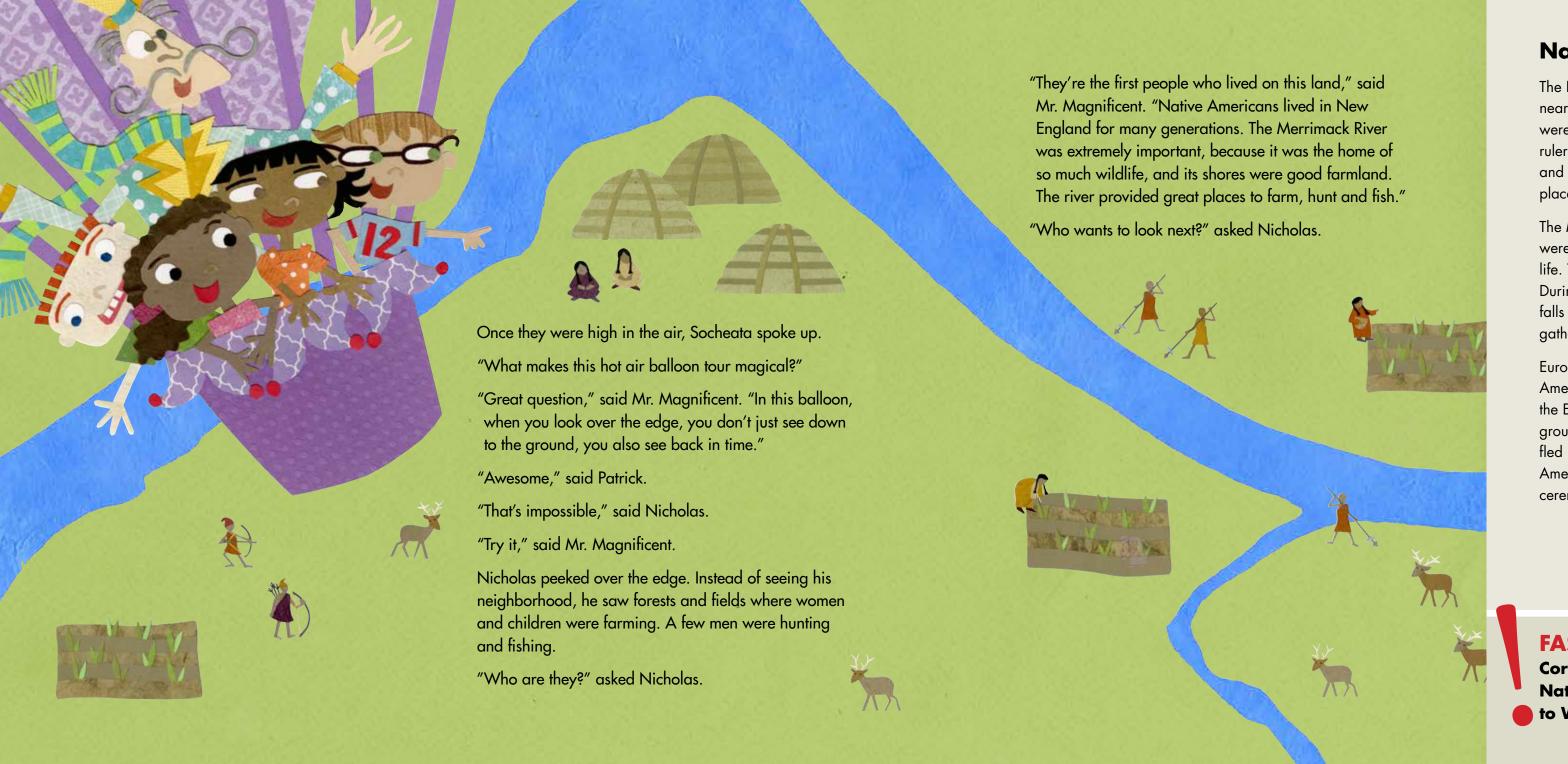
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"Is it time to go yet?" asked Socheata for the third time that afternoon. Socheata's parents bustled around the kitchen cooking. They were making food for the Water Festival. Socheata attended the festival every year and loved it. "Listen, honey, it won't be time to go for two more hours," said her mother. "You can either help me finish these treats, or you can go outside and find something interesting to do. Just make sure that you get to the festival in time for supper."









Native Americans

The Native American communities who lived near the Merrimack River for a very long time were part of the Penacook group. Important rulers of the Penacook included Passaconaway and Wannalancit. These names are used for places in New England today.

The Merrimack River and the Pawtucket Falls were important to the Native American way of life. The river provided food and transportation. During the spring, Native Americans came to the falls to plant corn, beans, and squash. They also gathered salmon and other fish from the river.

European settlers did not recognize Native
American ownership of the land. In the 1600s,
the Europeans pushed out most of the local
groups. Many of these Native Americans
fled north. Some descendants of these early
Americans still hold pow-wows and other
ceremonies that keep their culture alive.

FASCINATING FACT

Corn was as important for Eastern Native Americans as buffalo were to Western Native Americans. Clarice jumped up and looked over the side of the basket. "From this high up, the farms look like a giant quilt," she said. Mr. Magnificent continued his story. "When the European settlers first arrived, they used the Merrimack River valley for farmland. Like the Native Americans, they knew the soil along the banks of the river would be ideal for growing crops. Unfortunately, the colonists wanted the land for themselves, and they forced the local tribes to move away." "That's not very fair," said Clarice. "The Native Americans were here first." "You're right," said Mr. Magnificent. "Over the past 200 years, many changes have happened on the shores of the Merrimack River. Some of these changes haven't been fair."

Colonial Settlement

When Europeans first came to New England, most lived on farms. Families worked hard to make what they needed for daily life. They bartered (traded) for things they couldn't make themselves. One of the most time-consuming chores for colonial settlers was making cloth. Wool needed to be cleaned, straightened, and spun into yarn before weaving could begin. This weaving was typically done on hand looms.

Colonists also lived in towns and cities. Many became skilled craftspeople. Several trades were common:

- blacksmithing
- tailoring
- shoemaking

Craftspeople often worked in small workshops and owned their own tools.

Colonial Americans used the Merrimack River to travel and transport goods, but the Pawtucket Falls made river travel difficult. The full potential of the Merrimack River had yet to be discovered.

FASCINATING FACT

Before 1800, bartering for goods was far more common than selling items for cash.



The Canal System

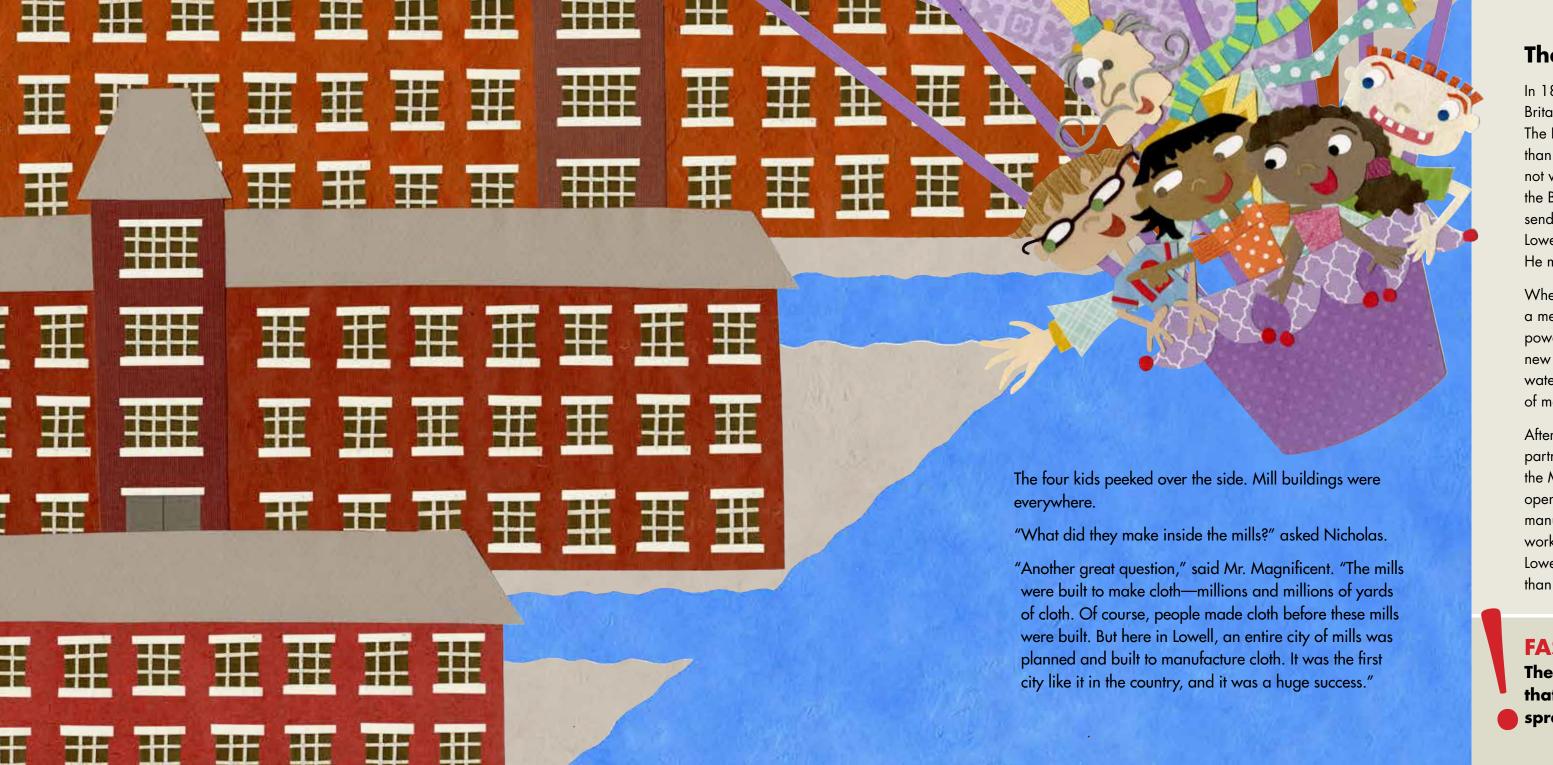
In 1814 a man named Francis Cabot Lowell wanted to build a large textile mill. Because there was no electricity, Lowell had to build the mill where there was a natural power source. He built his mill in Waltham, Massachusetts, and used water power. The mill was a success.

Mr. Lowell's business partners knew of a nearby area on the Merrimack River that was perfect for building more mills. The river fell 32 feet over about one mile. They decided to build a system of canals that took water from the high level, channeled it through the mills, and then returned it to the river at a lower level. These businessmen hired mostly Irish immigrants from Boston to dig the canals. By 1850 the canal system was almost 6 miles long and powered 10 major mill complexes.

The mill owners thought of the river as their property, as something that could be controlled for their own profit. One thing is certain ... without the waterfall and the canals, there would have been no large textile mills in Lowell.

FASCINATING FACT

Five hundred men with shovels worked for 17 months to dig the first 1½ miles of the canal system.



The Mills

In 1810 Francis Cabot Lowell traveled to Great Britain to learn about how British mills operated. The English power loom wove cloth much faster than hand weavers could. English mill owners did not want other countries to have this invention, so the British government prohibited anyone from sending a power loom to another country. Mr. Lowell visited factories that used power looms. He memorized how the looms worked.

When Lowell returned home in 1812, he and a mechanic named Paul Moody built the first power loom in the United States. With this new technology, Lowell was able to build a water-powered factory in which all the steps of making cloth took place under one roof.

After Lowell's death in 1817, some of Lowell's partners built other mills that used water from the Merrimack River for power. The first mill opened in 1823, and by 1848 ten major manufacturing corporations employed 12,000 workers. The city that was formed was named Lowell. By 1850, Lowell had grown to more than 30,000 inhabitants.

FASCINATING FACT

The Lowell mills were so successful that they were copied. Factory cities sprang up all over New England.



closer look."

to the city to work in the mills."

The "Mill Girls"

Lowell mill managers hired young, single women, mostly ages 14 to 25, from farms across New England. The bosses hired these Yankee women for many reasons:

- Women already knew how to make cloth.
- The bosses believed women would accept lower wages than men would.
- Women had few other opportunities for paid work.

Yankee women took the jobs for many reasons:

- The pay was higher than women could find in other jobs.
- Their earnings helped support their families.
- The city offered social, cultural, and religious opportunities, including lectures, exhibitions, and plays.

The "mill girls" lived in boardinghouses that the mill owners had built. Usually 30 to 40 women lived together in each boardinghouse. They were expected to attend church regularly and behave properly. The boardinghouses provided a supportive environment for the workers. Some workers stayed for many years.

FASCINATING FACT

Nearly 10,000 Yankee women left New England towns to work in Lowell.



Girls and Boys

By the mid-1800s, the textile mills in Lowell produced more than one million yards of cloth each week. In addition to hiring adult workers, mill owners occasionally hired children. The mill owners hired young girls, ages 9 to 13, to be bobbin girls. Their job was to remove the bobbins filled with yarn from the spinning frames and replace them with empty ones.

Gatehouse keepers controlled the level of water in the canals, which affected the speed of the machines. Because the telephone had not yet been invented, the mill bosses had to figure out a way to send messages to the gate tenders when the water level needed adjusting. What they did was hire young boys to be runner boys. These boys ran along the canals delivering messages.

While girls and boys in the mills worked hard, the work wasn't constant. Bobbin girls worked about 15 minutes out of every hour. In 1836, Massachusetts passed its first child labor law requiring children under 15 working in factories to attend at least three months of school per year.

FASCINATING FACT

By 1848 Lowell's mills produced 50,000 miles of cotton cloth each year, enough to circle the earth twice.



The balloon floated along peacefully until—

"Duck!" screeched Mr. Magnificent.

Socheata, Clarice, Nicholas, and Patrick screamed. They immediately crouched down and covered their heads. Mr. Magnificent burst out laughing.

"No, no, no," he said. "I didn't mean you were supposed to get down. I meant, 'Here comes my good friend, Duck.'"

Into the hot air balloon flew a duck. The duck perched on Mr. Magnificent's shoulder and quacked a friendly hello.

"Why is there a duck all the way up here?" asked Nicholas.

"If you take a peek over the edge, I think you'll understand," said Mr. Magnificent.

Nicholas stuck his head over the edge.

"Something stinks!" he said.

"You're right." said Mr. Magnificent. "Unfortunately, the mills created a lot of pollution. Waste from the mills spilled into the river. That pollution caused major problems. The salmon that used to be so plentiful started to die. People who depended on the Merrimack River for drinking water became sick. Duck always comes and visits me during this part of the tour. He'd rather avoid all that stench."

Working Conditions

Working in the mills could be unpleasant—in fact, it could be dangerous! Here are some of the poor conditions workers had to endure.

• Noise

The machines were very noisy. Many workers lost their hearing.

Poor ventilation

The factories had poor ventilation. The humid, dusty air of the mill made many workers ill.

• Dangerous machines

The moving parts of the looms weren't covered, so accidents were common.

• Speed-ups and stretch-outs

Owners increased both the speed and the number of looms that workers operated.

• Poor drinking water

People dumped dyes, chemicals, and human waste into the river. Drinking the polluted water sometimes made people sick.

FASCINATING FACT

The "mill girls" worked 6 days a week, for up to 14 hours a day—sometimes standing the entire time!

Socheata looked over the side.

HARDWORK

SHOULD MEAN

"Oh, no," she said. "I think there's trouble brewing down below."

"Great observation," said Mr. Magnificent. "The mill girls are protesting."

"What are they protesting?" asked Nicholas.

"Pollution wasn't the only problem the mill girls had to deal with," said Mr. Magnificent. "Working conditions weren't all that grand. Low wages, long working hours, and loud machines were everyday occurrences. Many mill girls walked out." "Did their protests work?" asked Socheata.

"While they didn't get everything they wanted right away, over time their efforts made a big difference," said Mr. Magnificent.

You can't get
BETTER
NO CONDITIONS
MORE Unless you
unless you
THEM!

Protesting

The first strikes by textile factory workers in U.S. history took place in Lowell. "Mill girls" led these strikes. The strikers had several complaints:

- long work days and pay cuts
- increased speed of machines
- increased number of machines for each worker

Mill owners were very powerful and could fire troublemakers. They thought it was unacceptable for women to complain. It took courage for the "mill girls" to protest these conditions. One brave protester was a 10-year-old girl who led an entire floor of workers out in protest. Unfortunately, their protests were mostly ignored. These strikes failed for a number of reasons:

- Mill owners worked together to prevent any mills from giving in to workers' demands.
- New immigrants were willing to take the jobs.

Even though not every strike succeeded, the "mill girls" didn't give up. Their protests resulted in a law in 1874 that made a 10-hour work day the legal limit for women and children in Massachusetts.

FASCINATING FACT

During the 1830s, the "mill girls" earned between \$12 and \$14 a month.

Socheata, Clarice, Nicholas and Patrick took turns looking through the binoculars. Each child saw a different group of people.

"Why are there so many kinds of people down there?" asked Socheata.

"Very good, very good," said Mr. Magnificent. He was clearly delighted. "Yet another great observation. Did you know that the United States is made up of many groups of immigrants?"

"Yes," said Socheata. "That's because people from all over the world have moved here to start a new life."

"That's right," said Mr. Magnificent. "And the Merrimack River valley is a great example of this immigration. Over the years, many different groups of people have moved away from their homelands to start a new life here."

"My Greek ancestors immigrated here," said Nicholas.

"So did my ancestors," said Socheata. "We're from Cambodia."

"My family did, too" said Clarice. "We just immigrated from Kenya, and I know Patrick's ancestors came from Ireland."

"Awesome," said Patrick.



Immigrants

For 30 years, Yankee women filled most of the jobs in the mills. In the middle of the 1800s, changes started to occur. Irish immigrants moved to Lowell because of a famine in Ireland. These new residents were willing to work for less pay. They gradually joined Yankee women in the mills.

French-Canadian immigrants moved to Lowell in the 1860s and 70s. By the end of the 1800s, immigrants from Greece, Poland, Portugal, and other countries started to arrive. With all the available workers, wages became even lower. Whole families had to work in the mills to make enough money to survive.

In the late 20th century, immigrants continued to come to Lowell. Many people arrived from Southeast Asia, Latin America, and other parts of the world. In the early 21st century, refugees from the Middle East and Africa settled in Lowell.

FASCINATING FACT

In 1900, more than 40% of Lowell's residents were born in another country.



Lowell Today

In 1972, the U.S. Congress passed the Clean Water Act. As a result, Lowell and other cities, along with local citizen groups, cleaned up the Merrimack River. Because of their efforts, the water in the river and the canal system is now healthy. These improvements help the region in many ways:

- Water provides hydroelectric power.
- Water provides recreation opportunities, such as fishing, boating, and swimming.
- Clean drinking water is available.

The city of Lowell is also thriving. Organizations like the University of Massachusetts Lowell, the Tsongas Industrial History Center, and Lowell National Historical Park are working together to make Lowell a great place to live and learn.

Finally, Lowell continues to grow stronger through a rich blending of cultures. Descendants of the original Native Americans and all the immigrants groups who followed play an important role in shaping this city. Lowell is a truly remarkable place with a rich history, an exciting present, and a bright future.

FASCINATING FACT

Lowell is known as the "Mill City" or the "Spindle City."



