



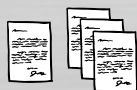
### Student Guide

*A Chance to Change the World*, pg. 11



### Suggested Activity

To reinforce Invention Concept Eight, turn to page 16 of this Guide to complete the “Women Inventors” activity with the class.



### Copymaster

Copy the “Invent-O-Rama” copymaster on page 21 of this Guide, and distribute it to the class.



### DVD Connection

Please refer to your Inventive Thinking DVD for great inspirations.



### Internet Connection

See [www.blackinventions101.com/pages/699282](http://www.blackinventions101.com/pages/699282).

For more great class activities and inventive thinking resources, check online at [www.bkfk.com/toolkit](http://www.bkfk.com/toolkit).

## Invention Concept Overview

Inventors are ordinary people who follow through with their creative ideas to make their dreams a reality. As students read about inventors’ lives, they will also realize that inventors are male, female, old, young, and come from diverse backgrounds. Many great innovators had disabilities that did not prevent them from becoming successful inventors.

## Introducing the Invention Concept

The following stories about great thinkers and inventors will help to motivate your students and enhance their appreciation of the contributions of inventors to the American way of life.

## Discussion Points

### Great Thinkers and their Inventions

- Earmuffs
- Band-Aid<sup>®</sup>
- Life-Savers<sup>®</sup> Candy
- Frisbee<sup>®</sup>

### Young Inventors

At age 14, one schoolboy invented a rotary brush device to remove husks from wheat in the flour mill run by his friend’s father. *What was the young inventor’s name?*

At 16, another of our junior achievers set his mind on developing a commercially viable aluminum refining process. *Who received a patent on his revolutionary electrolytic process by age 25?*

While only 19 years old, this person designed and built his first helicopter, which nearly flew in 1909. Years later, he changed aviation history. *Who was it? HINT:* He was inducted into the National Inventors Hall of Fame in 1987.

### Great Women Inventors

- Margaret Knight
- Sarah Breedlove Walker
- Bette Graham
- Ann Moore
- Stephanie Kwolek
- Madam C. J. Walker
- Ellen Ochoa
- Miriam E. Benjamin
- Gertrude B. Elion
- Dr. Patricia E. Bath
- Virginia Apgar
- Josephine Garis Cochran

### Great Minority Inventors

- Elijah McCoy
- Benjamin Banneker
- Granville Woods
- Garrett Morgan
- Clatonia Joaquin Dorticus
- George Washington Carver
- Lewis Latimer
- Otis Boykin
- Pedro Flores
- Narciso Monturiol
- Jan Ernst Matzeliger
- Lonnie G. Johnson
- Bernardo Houssay

## Coaching Tips

The accomplishments of women and minority inventors are especially important to focus on, as they have been underrepresented in history. Most important, make sure the inventors you focus on reflect the background of the children. In that way, they can better picture themselves as inventors.