

## Practicing the Critical Parts of Inventive Thinking and Completing the Invention



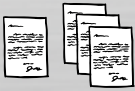
### Student Guide

Are You a Solution Seeker?  
pg. 7



### Suggested Activity

To reinforce Invention Concept Four, turn to page 14 of this Guide to complete the “Deconstruction” activity with the class.



### Copymaster

Copy the “Planning and Decision-Making Framework” copymaster on page 20 of this Guide, and distribute it to the class.



### DVD Connection

Please refer to your Inventive Thinking DVD for great inspirations.



### Internet Connection

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

### Invention Concept Overview

Students begin to focus on and develop an invention idea of their own, as they move from the creative-thinking phase into the critical-thinking phase of the invention process.

### Introducing the Invention Concept

Explain to students that now that they have had an introduction to the inventive process, it is time for them to find a problem and create their own invention to solve it.

### Discussion Points

Begin by asking your students to conduct a survey. Tell them to interview everyone they can think of to find out what problems need solutions. Ask the students to list the problems that need to be solved.

Next comes the decision-making process. Ask students to think of which problems would be possible for them to work on, by listing the pros and cons for each possibility, and by attempting to predict the outcome or possible solution(s) for each problem. Make a decision by selecting one or two problems that provide the best options for an inventive solution.

### Coaching Tips

To illustrate why record-keeping is important, read to students the following story about Daniel Drawbaugh:

*Long before Alexander Graham Bell filed a patent application in 1875, Daniel Drawbaugh claimed to have invented the telephone. But since he had no journal or record, the Supreme Court rejected his claims by four votes to three. Alexander Graham Bell had excellent records and was awarded the patent for the telephone.*

### Extension

Begin an Inventor’s Log or Journal. A record of your ideas and work will help you develop your invention and protect it when completed.

Day 1 3/5/05: I could start my project.  
 Day 3 3/5/05: Got ice skates and took the blade off of the skates. Also I cut one of them in half with a sawzall.  
 Day 4 3/10/05: Planned how I would get the blades on and keep them even.  
 Day 5 3/14/05: Put the back blade onto the scooter.  
 Day 6 3/15/05: Started mounding the wood on so I could put the wood onto the front to make the blades even. Also I started coloring in

Sample  
Journal entry