

A few on-line introductions to Mathematical Induction:

1. http://en.wikipedia.org/wiki/Mathematical_induction This Wikipedia article is a very good introduction. Read the first part (up through the section entitled "Polya's proof").
2. <http://www.themathpage.com/aPreCalc/mathematical-induction.htm> Another good introduction, with a few simple examples and some problems to check your understanding.
3. <http://www.cut-the-knot.org/induction.shtml> A simple explanation and example with links to many other examples (a few of those examples are quite advanced).
4. **Three related pages:**
 - a. <http://www.cc.gatech.edu/home/idris/AlgorithmsProject/ProofMethods/Induction/UnderstandingInduction.html> A more detailed explanation (informal proof) of why Mathematical induction is a legitimate proof technique.
 - b. <http://www.cc.gatech.edu/home/idris/AlgorithmsProject/ProofMethods/Induction/ProofByInduction.html#InductiveStep> Proving something by induction
 - c. <http://www.cc.gatech.edu/home/idris/AlgorithmsProject/ProofMethods/Induction/ProofByInduction.html#InductiveStep> Additional practice problems
5. http://www.acts.tinet.ie/induction_645.html Another introduction, with several interesting examples.
6. <http://www.math.csusb.edu/notes/proofs/pfnot/node4.html> A page about proof techniques in general, of which Mathematical Induction is one.