There are three stages of inquiry, demanding as many different kinds of reasoning governed by different principles. They are,

1. Retroduction, forming an explanatory hypothesis;
2. Deduction, tracing out the consequences that would ensue upon the truth or falsity of that hypothesis; and
3. Induction, the experimental testing of the hypothesis by inquiring whether its consequences are born out by fact, or not.


http://www.commens.org/dictionary/entry/quote-logic-fragments-r-1