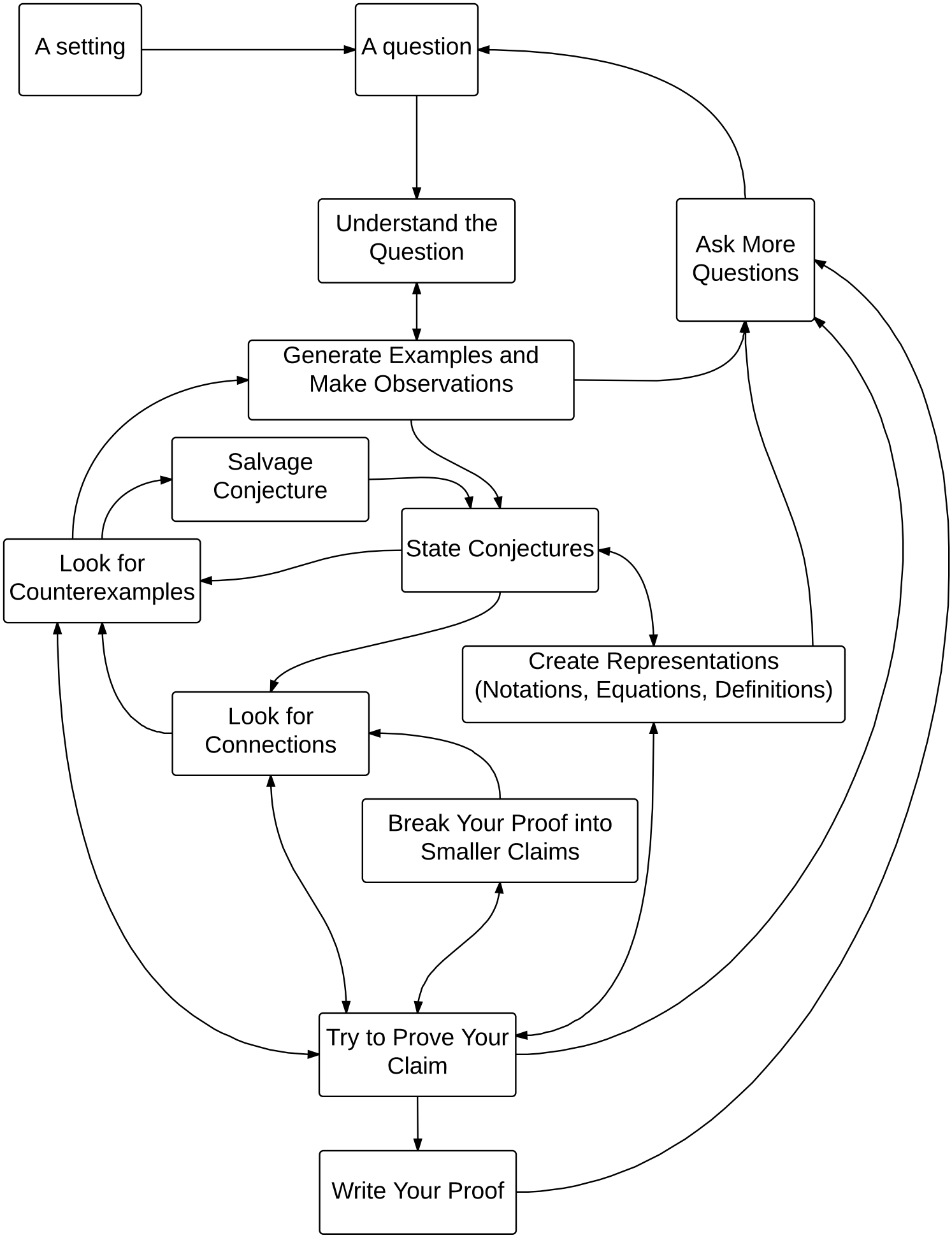
A setting
A question
Understand the Question
Ask More Questions
Generate Examples and Make Observations
Salvage Conjecture
State Conjectures
Look for Counterexamples
Create Representations (Notations, Equations, Definitions)
Look for Connections
Break Your Proof into Smaller Claims
Try to Prove Your Claim
Write Your Proof