

Source: [KBISOSMasterIndex](#)

## 1 | Strong inference notes

#disorganized

- “All science is equal”: a fiction
  - Attempt at grant getting?
- “Primary factor in scientific advance is an intellectual one”
  - Fast moving fields have systemic research methods => strong induction, named “strong inference”
- String inference
  - Basic inductive reasoning
  - Basis of the scientific method
    1. Hypothesize all alternatives
    2. Devise experiments to rule out hypothesis
    3. Carry out the experiment
    4. Do it again with new subproblem
  - Not as simple as deduction
  - However, minimum sequence for knowledge production
  - Subject to squabbles
    - Whether to exhaust all possibilities or test simply the reasonable ones
- Conditional inductive tree
  1. Possible causes
  2. Crucial experiments
  3. Exclusions based on experimentation and adopting what's left
- Molecular biology: user of strong inference

When we make a single hypothesis, we become attached to it

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