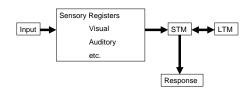
## Cognitive Science Approach Chapter 2 Transcendental Method • Immanuel Kant – work backward from observed effects to infer their causes - Factory analogy **Experimental Cognition** Scientific method requires: - careful consideration of the research question - strict use of experimental controls - pseudo-objective interpretation of data - external verification: i.e., other researchers, openness of methods etc.

## Standard Information Processing Approach

• Atkinson & Shiffrin (1968)

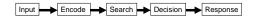


## Sample Question

- What colour is a yield sign?
- What colour is a merge sign?
- What could we measure?
  - Reaction Time (e.g., Donders)
  - Accuracy (e.g., Ebbinghaus)
  - Verbal Protocol verbalize thoughts
  - Neurocognitive Measures fMRI, ERP, PET

## **Process Model**

 a hypothesis about the specific mental processes that take place when a specific task is performed



Sequential non-overlapping stages

