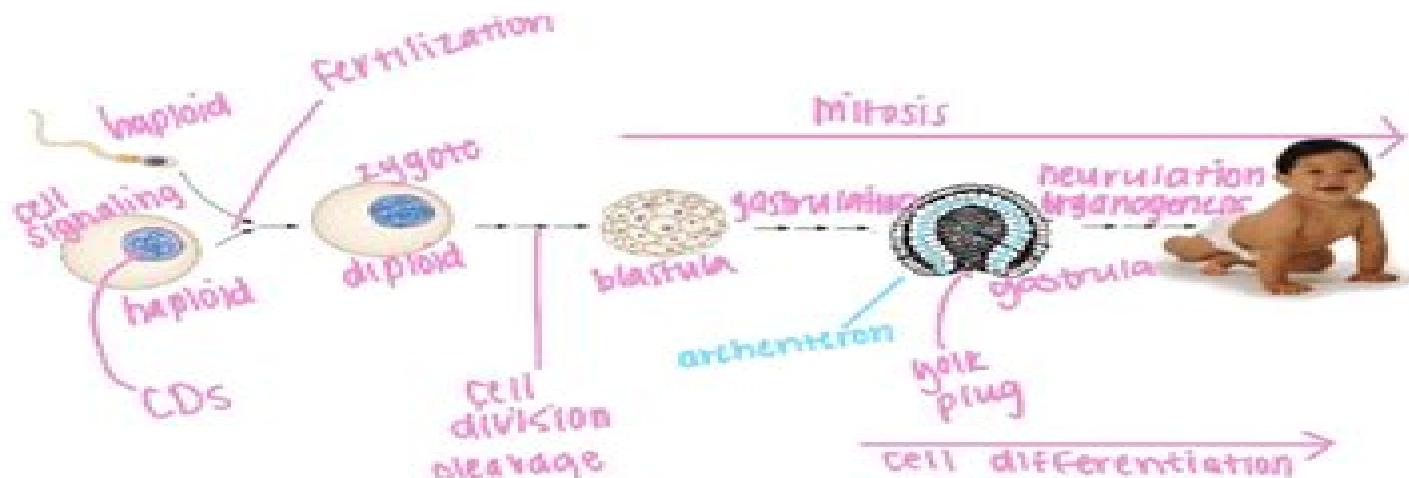


## BIO II UNIT 1 STUDY GUIDE



- 
- 
- **Deductive vs. Inductive Reasoning**
  - **Deductive:** predict results if a certain premise is correct (general to specific)
  - **Inductive:** Derived generalizations from a large number of specific observations (specific to general)
- **Scientific Theory**
  - Broad and well substantiated theory for some aspect of the natural world that is consistent with available evidence
    - EX: all species are descended from a common ancestor
- **Hypothesis**
  - Proposed explanation for an observed phenomenon that is based on knowledge and consistent with available evidence
    - EX: there are no polar bears in the Antarctic because there is no feasible route to get there
- **Experiments test hypotheses**
- **Scientific literacy matters because**
  - Curiosity and making connections!!
- **Progressive loss of genetic material**

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**American Council on Education**

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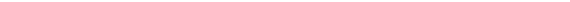
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