

# Chapter 2 Notes

## 1. Swingers to Walkers (23-3m ya)

- **Early Apes (23 million years ago)**

- Perfectly adapted for forest life with long arms, curved fingers, flexible shoulders
- Forward-facing eyes to judge jumping distances

- **Climate Change Challenge (10 million years ago)**

- Earth cooled, forests shrank, savannas grew
- Some apes ventured into open grasslands

- **Walking Upright (7 million years ago)**

- First "hominins" stood on two legs
- **Advantages:** seeing over tall grass, traveling longer distances, keeping cooler, freeing hands

- **Notable Early Hominins**

- **Ardipithecus** (4.4 million years ago): Could walk upright and climb trees
- **Australopithecus** (4 million years ago): Clearly built for walking upright
- **Lucy** (3.2 million years ago): Famous skeleton showing upright walking

## 2. Homo habilis (2.8-1.5m ya)

- **Major Change:** First creatures to create tools rather than waiting for mutations
- **Oldowan Tools:** Simple stone flakes and choppers
- **Walking Upright** (7 million years ago)
  - Cut meat from animal bodies
  - Crack open bones for nutritious marrow
  - Process tough plant materials
  - Better defense against predators
- **Tool-Brain Cycle:** Better nutrition → larger brains → more sophisticated tool-making → even better nutrition