

## What is evolution? STUDY GUIDE

### Evidence for evolution

- Fossils
- Biological molecules
- Comparative Embryology
- Comparative Anatomy and Physiology
- Biogeography

### Darwin

- Common descent—All organisms are descendants of one of a common ancestor
- Natural selection

### Artificial Selection

- Human's breed: dogs, cows, pigs, lettuce, corn, etc
- Pick the ones with the BEST trait, breed ONLY those individuals

### Natural Selection and the 4 Requirements

- Over production of offspring (More born than die)
- Heritable variation (DNA mutations)
- Selection: Only some survive and reproduce (Competition for limited resources)
- Adaption: Traits of those that survive are more common in offspring!

**Fitness**=more offspring/babies

### Fossils

- A fossil is the preserved, mineralized skeletal remains, preserved animals, footprints, pathways of an organism

**Biological molecules**: DNA comparisons, common uses of DNA, RNA, amino acids, etc

**Comparative Embryology** : Similar pattern of development across species

### Comparative Anatomy and Physiology

- **Vestigial structures** – reduced and rudimentary compared to the same part in similar or related organisms (Examples: human tails, hind limbs in living whales)
- **Homologous structures** - the similarity between structures in different organisms that is attributable to their inheritance from a common ancestor (bird/bat/pterosaur wings, orca and shark tails)
- **Homologous structures** - various structures in different species having the same function but have evolved separately, thus do not share common ancestor

**Biogeography**: study of the geographic distribution of species (examples: Galapagos finches, Galapagos tortoises)

### Adaptations

- **Behavioral**: courting rituals and territorial behaviors
  - Examples: bird songs, bird dances for mates, elk head-butting, whale migration
- **Structural (anatomy)**: Camo, mimicry, sexual dimorphism
  - Peppered moth, Mimicry: king snakes looks like coral snake, peacock male different color than female, Camouflage: stick insect looks like a stick ☺
- **Physiological**: desert mouse (kidneys), Toxins in plant leaves

**Human /Environmental Impact**: Peppered moths, natural environment vs polluted environment 702025

# Study Guide Evidence For Evolution Key

**Johnson,Judith Stewart**

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