

Section 3-1

Darwin's Voyage



Turn the word “time” into the word “palm” by changing one letter at a time. The in-between words must be real words that have meaning.

Answers: Time
 Tame
 Tale
 Pale
 Palm

Do it again, but this time change two letters at a time.

Answers: Time
 Pile
 Palm

Make a generalization about the change that was allowed in each case and the number of intermediate words needed to reach the goal.



What did Darwin observe?

- A great diversity of life forms
- Similar to organisms on the main land
- Also important differences



How did Darwin explain his findings?

- Adaptations for survival
- Evolution – gradual change over time
- Natural selection



Natural selection:

- Overproduction
- Competition
- Variation
- Selection
- Isolation



Evolution



Moeritherium
36 million
years ago

Mastodon
25–30 million
years ago



Asian Elephant
present day



Paleomastodon
34 million years ago



Gomphotherium
23 million
years ago



Woolly Mammoth
2 million years ago



African Elephant
present day



How Do New Species Form?

- When a group of individuals remains separated long enough to evolve different traits
 - Kaibab squirrel vs. Abert's squirrel

But . . .

- They are still squirrels they did not become a different animal.



- **So this will explain how a species evolves, but there is no evidence to show that one species became another.**

- **Creationists do not hold that animals are exactly the same now as they were when they were created.**

