Ch 17 The History of Life

1. The Fossil Record
2. Fossils and Ancient Life

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1. How Fossils Form

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1. Interpreting Fossil Evidence
2. Relative Dating

1. Radioactive Dating

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1. Geologic Time Scale
2. Eras
3. Periods
4. Earth’s Early History
5. Formation of Earth
6. The First Organic Molecules
7. The Puzzle of Life’s Origins
8. Formation of Microspheres
9. Evolution of RNA and DNA
10. Free Oxygen
11. Origin of Eukaryotic Cells
12. The Endosymbiotic Relationship
13. The Evidence
14. Sexual Reproduction and Multicellularity

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1. Evolution of Multicellular Life
2. Precambrian Time

B. Paleozoic Era

 1. Cambrian Period

2. Ordovician and Silurian Periods

3. Devonian Period

4. Carboniferous and Permian Periods

 C. Mesozoic Era

 1. Triassic Period

 2. Jurassic Period

 3. Cretaceous Period

 D. Cenozoic Era

 1. Tertiary Period

2. Quaternary Period

 IV. Patterns of Evolution

1. Extinction

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1. Adaptive Radiation

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1. Convergent Evolution

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1. Coevolution

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1. Punctuated Equilibrium

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1. Developmental Genes and Body Plans

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NOTES, FIGURES, KEY CONCEPTS