

Unit 2, Chapters 7 and 8 - Review

Darwin's contemporaries:

- James Hutton and Charles Lyell (Geology)
- Jean-Baptiste Lamarck (Naturalist)
- Thomas Malthus (Population Economist)

Voyage of the *HMS Beagle*.

- Purpose
- Observations
- Galapagos Islands

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Darwin's conclusions:

- Artificial selection
- Struggle for survival
- Fitness and adaptations
- Survival of the fittest
- Natural selection
- Descent with modification
- Supporting evidence:
 - fossil record
 - geological distribution
 - homologous body structures
 - embryology



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A more modern understanding:

- populations
- causes of genetic variations
 - mutations
 - gene shuffling and crossing over
- Relative frequency
- Hardy-Weinberg Principle
 - 5 Factors necessary for maintaining genetic equilibrium
- 6 patterns of evolution

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Review questions:

Ch. 15 p. 389

mc: # 1 - 10

#12, 14, 17, 18, 19, 23, 26, 28, 29, 30

Ch. 16 p. 413

mc: #1, 2, 9

11, 12, 16, 20, 24

Ch. 17 p. 443

mc: # 9, 10

22 - 26, 33

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