

HOW POPULATIONS EVOLVE

(a) Lamarck's view

Original, short-necked ancestor



Keeps stretching neck to reach leaves higher up on tree



And continues stretching until neck becomes progressively longer

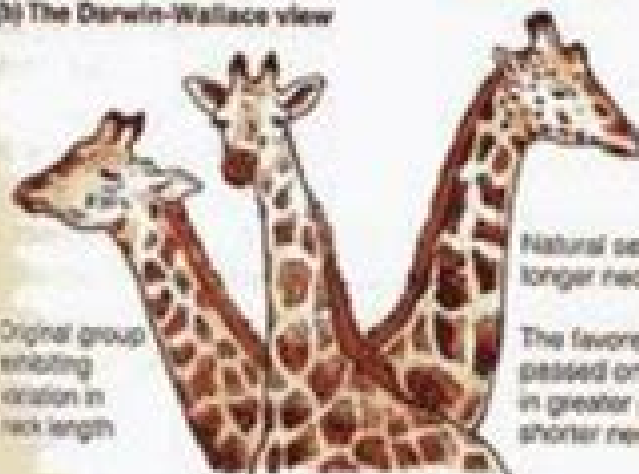


Long-necked descendant after many generations



(b) The Darwin-Wallace view

Original group exhibiting variation in neck length



Natural selection favors longer necks

The favored characteristic is passed on to next generation in greater proportion than the shorter neck



After many, many generations, group is still variable, but showing a general increase in neck length

How Populations Evolve Chapter 1 answers

Yi-Tong Ma



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Chapter Resource 13 Theory/Evolution Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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