

## A Science Comic on Evolution theory (worksheet example 2)

### First impressions

a) Read the comic completely and describe in a few sentences what you noticed in terms of biological and aesthetic aspects while watching and reading it.

b) Ask 1-3 questions that you have about the science comic after reading it for the first time.

### How did the whales evolve?

1. Explain why Tom and Diane are so surprised that the *Pakicetus* skeleton is in the whale section of the museum.

Answer:



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2. The three protagonists compare the evolutionary process of adaptation with Alice's magical adaptation to the much too small door. Do you agree? Evaluate the comparison of Alice's adaptation and the evolutionary adaptation from a biological (scientific) perspective in at least three sentences.

Answer:



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3. The hind limbs of *Ambulocetus natans* are adapted to aquatic living conditions. Their ancestors still had extremities that were adapted to life on land. Two different explanations have been put forward for this change. Compare both explanations with each other by,

a) describing the theories of evolution according to Darwin and Lamarck in 2-4 sentences each and

b) explaining the theories of Darwin and Lamarck using the example of whale evolution. Pay attention to the drawings next to the speech bubbles.

a) Description of the theory

Lamarck's Theory	Darwin's Theory

b) Explanation of the theories using the example of whale evolution

Lamarck's Theory	Darwin's Theory

**Unanswered questions and ambiguities**

If anything is unclear while working through the worksheet or questions arise, please make a note here. Please write the corresponding task number for your question.

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