

Name: Klasse: 

## What is Bionics? – Solution

1. Breakthroughs in bionics can significantly improve our standard of living. But what is bionics? Answer this question in two different ways after watching the film.

a) The term “bionics” has only developed recently. Which two words are combined to create the term?

*“biology” + “electronics”*

b) Explain very briefly in one sentence, what bionics is all about.

*Bionics tries to apply methods and designs found in nature to further advanced technology.*

2. In the film the picture below is shown while the term “bionics” is explained. Is this a good picture to illustrate the term “bionics” in your opinion? Explain why!



*Birds are very well adapted to flight. The features of the birds' anatomy that allow them to fly can be used as orientation to design technologies for aircrafts like airplanes to make them safer or to save energy for example.*

*The picture shows both sides of bionics, the biological model of a bird's body and the technological realization – the modern airplane. It puts both ideas next to each other and illustrates the basic idea of bionics perfectly.*