



Scenario

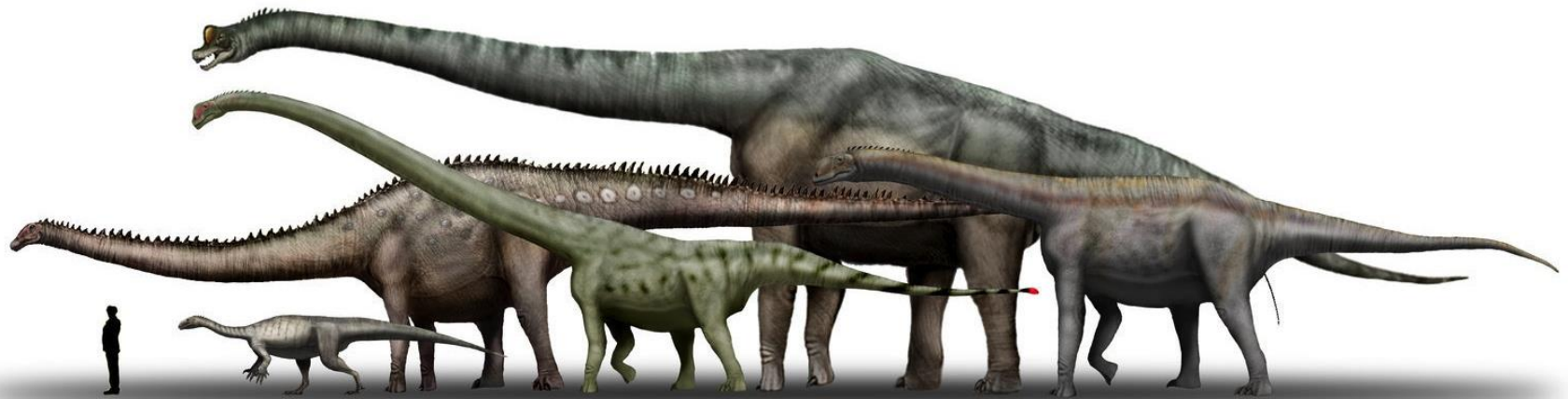
Giant dinosaurs

University of Bonn, Biology Education



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Giant dinosaurs



<https://unlobogris.deviantart.com/art/Sauropods-109783281>



Film:

<http://mediathek.dfg.de/en/video-detail/giant-dinosaurs-episode-1-dinosaurs-on-mallorca/>

Giant Dinosaurs: Episode 1 - Dinosaurs on Mallorca?

The sauropods were the largest animals that ever lived. Modern-day heavyweights are barely any match for these prehistoric giants. These dinosaurs continue to pose unanswered questions: How did the largest ever land-dwelling beings get to be that size? Using their fossilised bones, researchers are attempting to unlock the secret to the dinosaur's incredible size.

This isn't a rock. In fact it's a fossil, found by a couple on holiday that led Martin Sander and his research team to Mallorca in search of more evidence, because dinosaur bones are the ultimate source of information about these giants that weighed in at over 80 tons. Will the researchers find more fossils here?

How did sauropods get to be that size?
How can their gigantism be explained?

Inquiry (Science learning) & Consolidation:

Biology (Physics):

Learning content: Evolution, Research in Palaeontology, Gigantism in Sauropods

- Methods:

e.g.:

- Students in small groups investigate different aspects of the sauropods gigantism **watching short film episodes** (*10 different episodes available*):
<http://mediathek.dfg.de/en/video-detail/giant-dinosaurs-episode-1-dinosaurs-on-mallorca/>
Students might do some additional internet research and present their findings to the other students in the end
The film „Giant Dinosaurs: Episode 12 – The Solution to the Mystery“ can be used to summarize the findings.
- Discussion: **Why does evolution matter today?**
Evolution is used to study human impact on the environment, health, and agriculture.
Evolution in our world, e.g.
 - Environment and conservation
 - Agriculture and natural resources
 - Finding useful natural products
 - Human health and medicine
 - Biotechnology
 - Understanding humanity<http://www.pbs.org/wgbh/evolution/educators/lessons/lesson6/act2.html>