

O Mundo das Trilobites

Sam Gon III



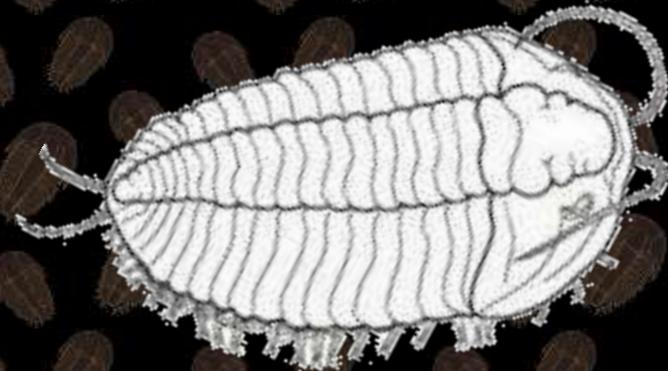
<http://www.trilobites.info>

O que são Trilobites?



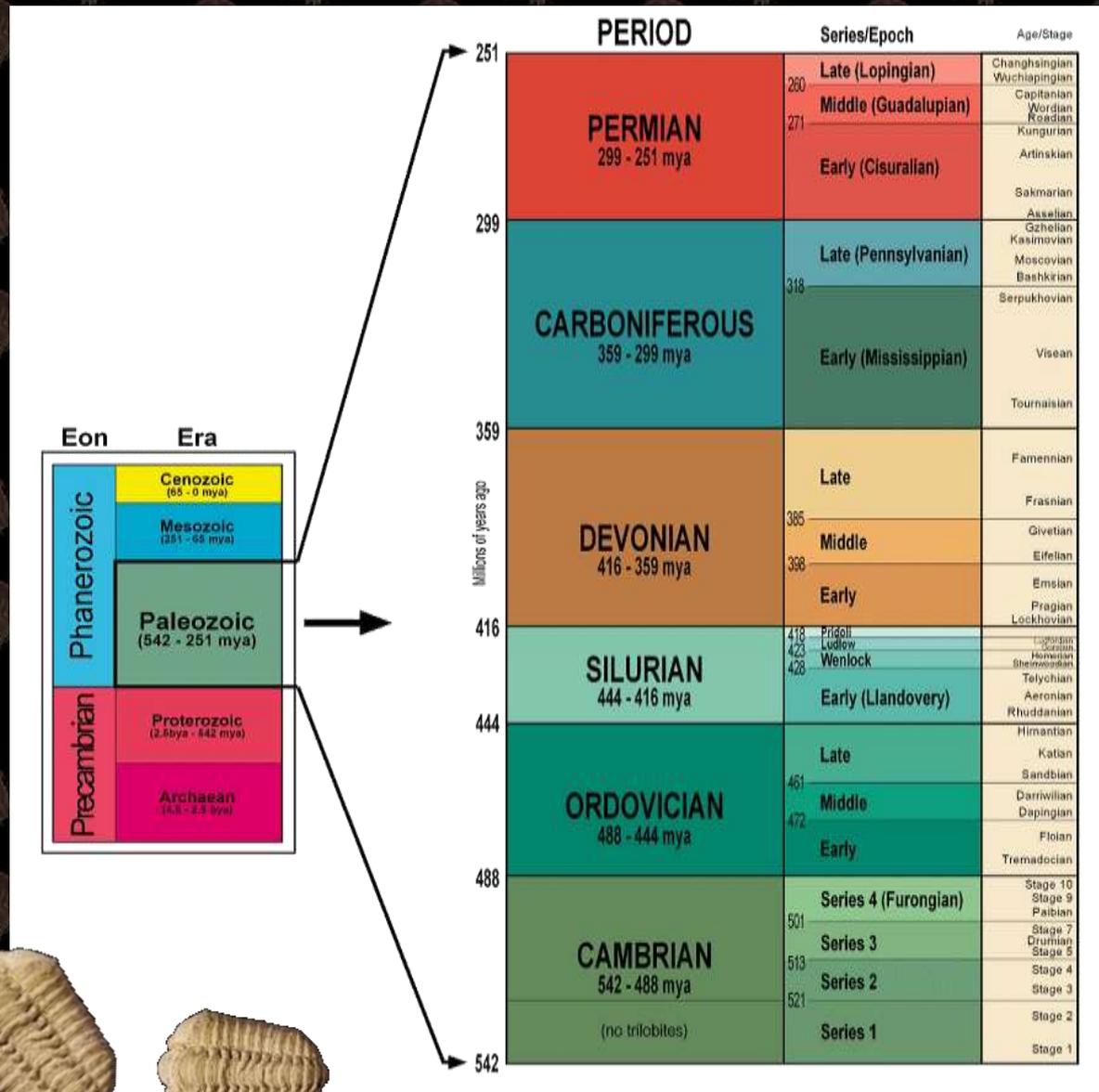
O que são Trilobites?

As trilobites pertencem ao grupo dos **artrópodes**, animais de corpo segmentado e membros articulados, que viveram durante cerca de 300 milhões de anos nos **antigos oceanos**.



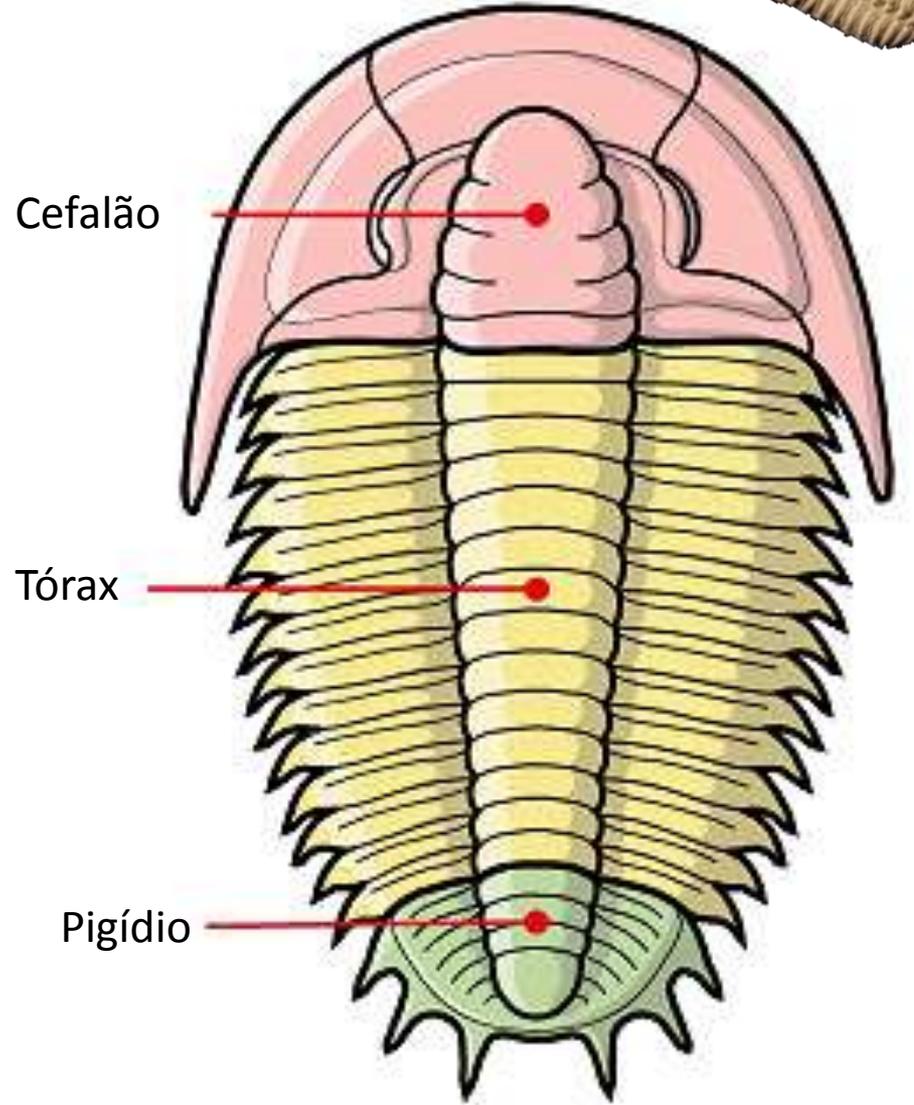
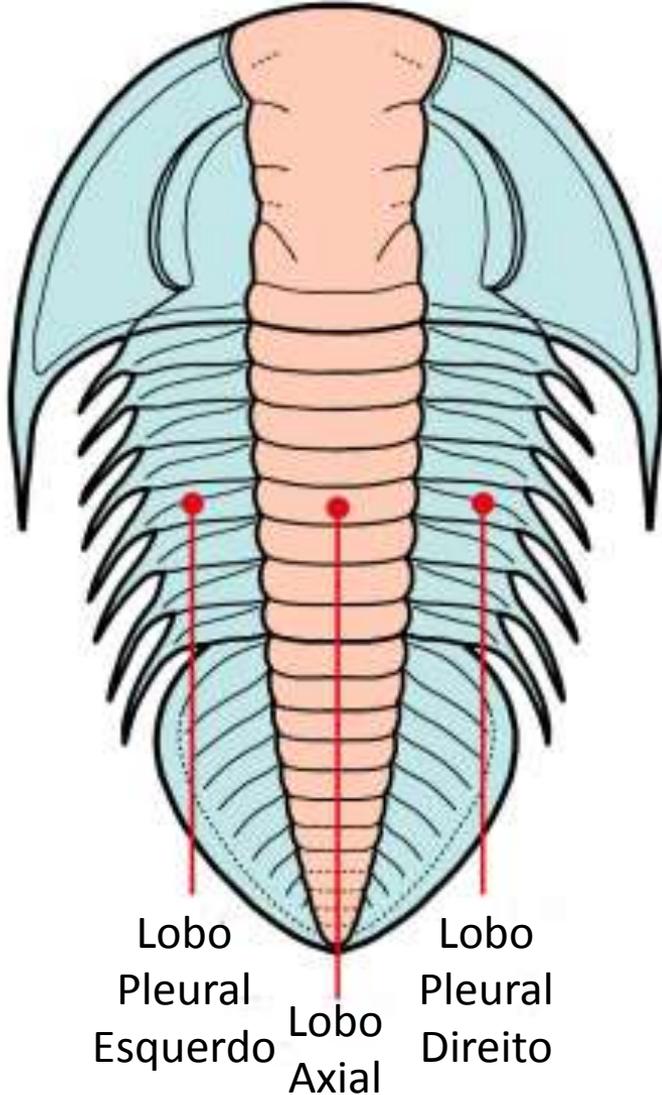
O que são Trilobites?

🎯 Viveram entre
há 542 – 251
milhões de anos 🎯



O que são Trilobites?

Morfologia



O que são Trilobites?

Morfologia

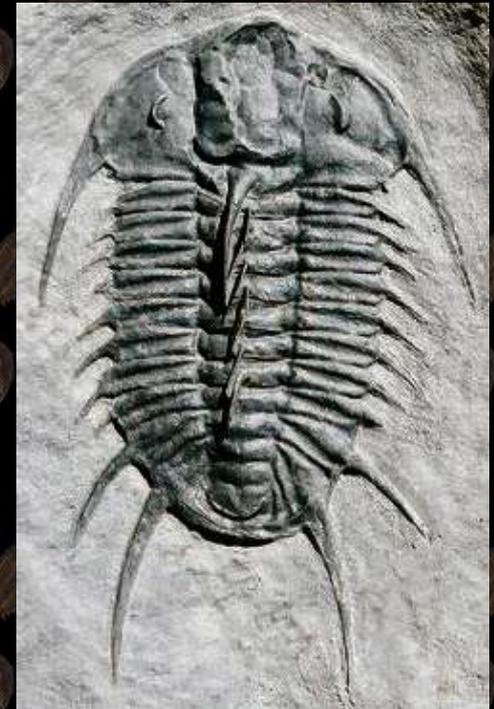
Parte dorsal



Neosaphus kowalewski



Modocia typicalis



Olenoides "trispinus"

© A carapaça era constituída por carbonato de cálcio que lhe conferia rigidez e favorecia a fossilização.

O que são Trilobites?

Morfologia

Parte ventral



Triarthrus



Triarthrus eatoni

A fossilização da parte ventral é extremamente rara!

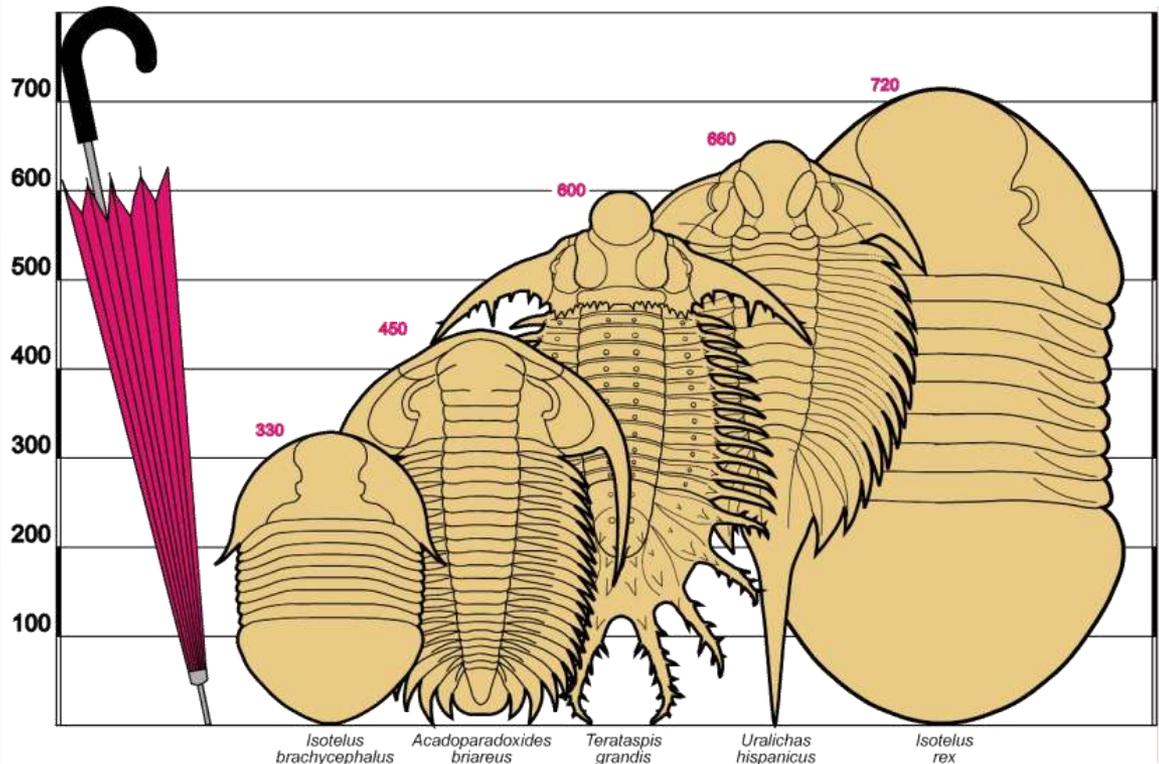
O que são Trilobites?

Diversidade



Existem cerca de 20 000 espécies descritas, apresentando grande diversidade de forma e tamanho:

© Desde 1 mm até mais de 70 cm



O que são Trilobites?

Diversidade

Correspondem a um dos grupos de animais extintos mais diverso!

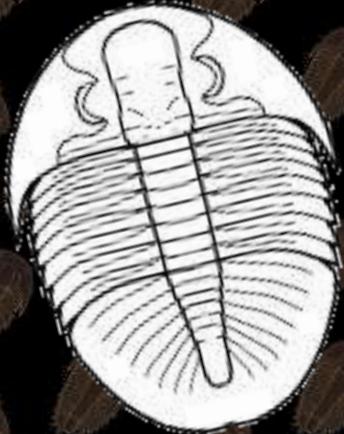


Corynexochida

Harpetida

Lichida

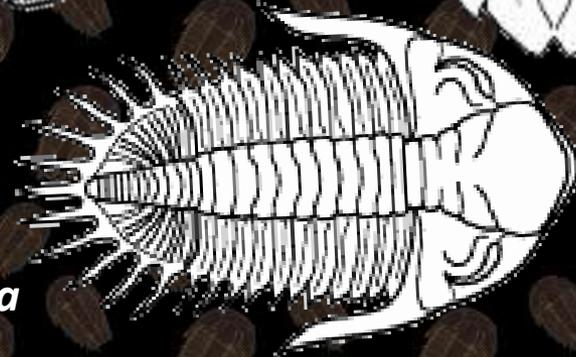
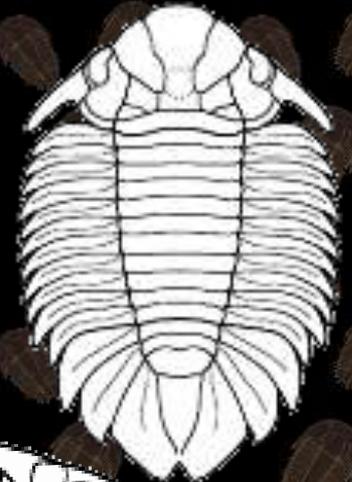
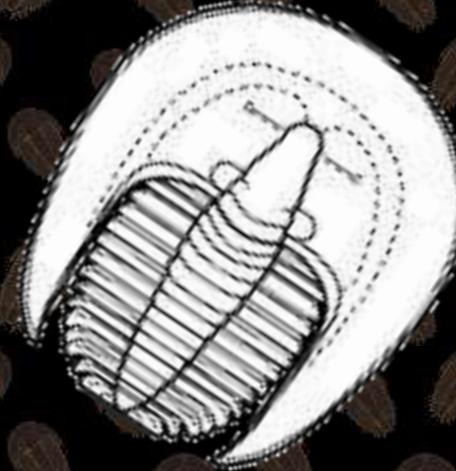
Agnostida



Asaphida



Phacopida



O que são Trilobites?

Crescimento

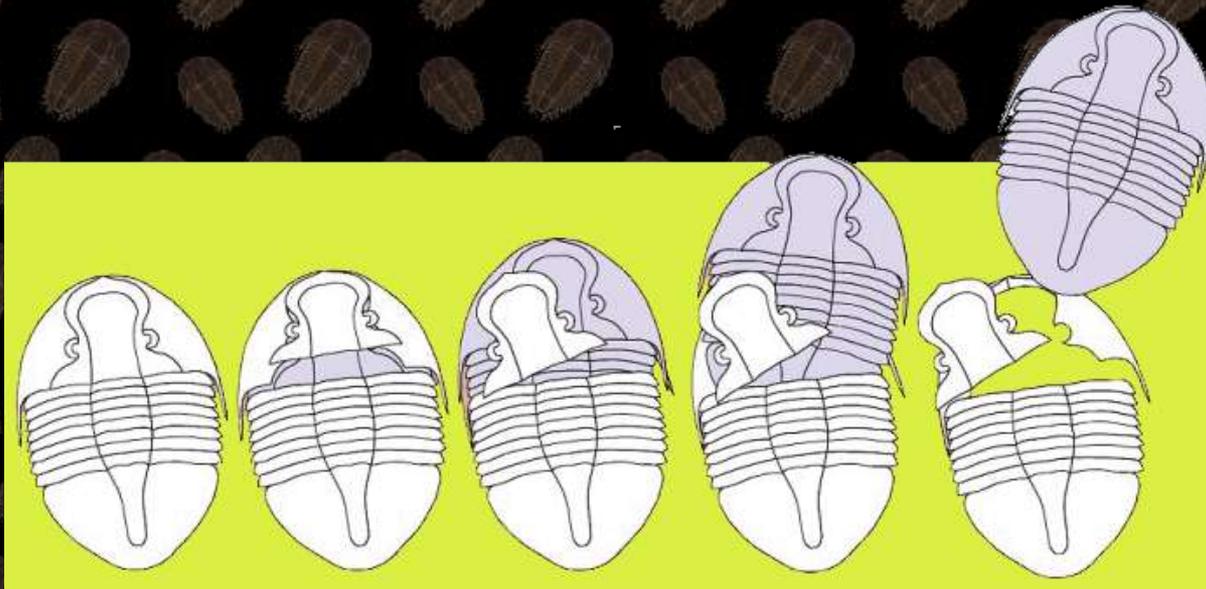
©A abundância de trilobites no registo fóssil deve-se à ocorrência de **mudas** de crescimento.

Crescimento:

Adição de novos segmentos ao exoesqueleto



Aumento do tamanho do corpo

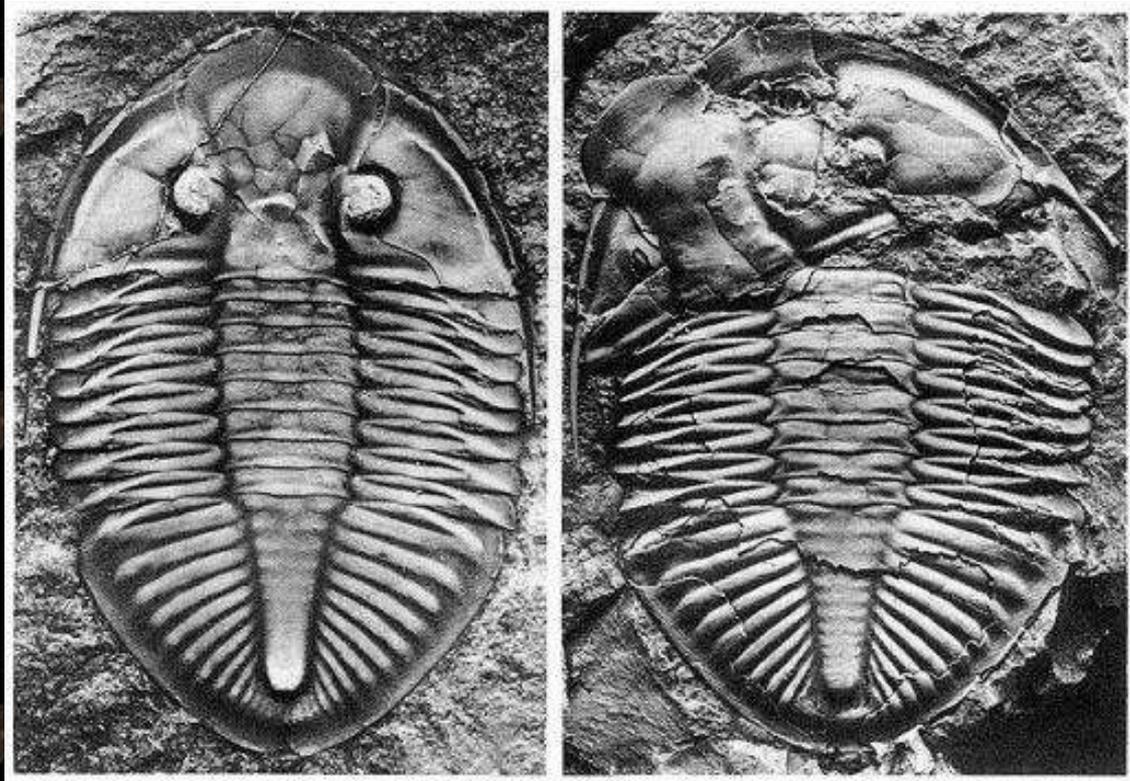


O que são Trilobites?

Crescimento



© Mudanças de crescimento ©



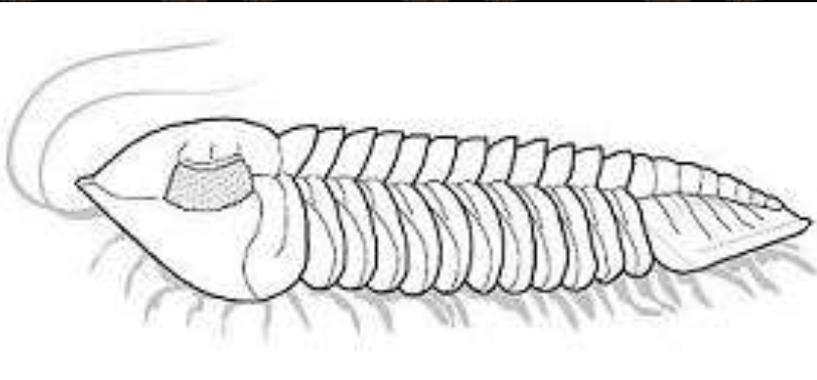
Pseudogygites latimarginalis

O que são Trilobites?

Enrolamento



© A flexibilidade dos segmentos torácicos permite o **enrolamento** das trilobites ©



Reacção instintiva de defesa contra predadores e flutuações do meio ambiente (salinidade e O_2)

O que são Trilobites?

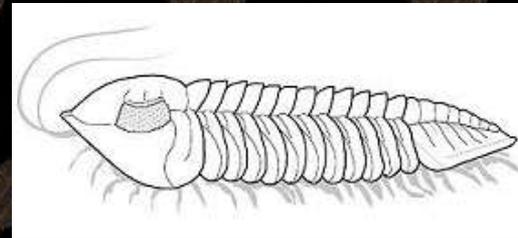
Enrolamento



© Enrolamento das trilobites ©



Pliomera



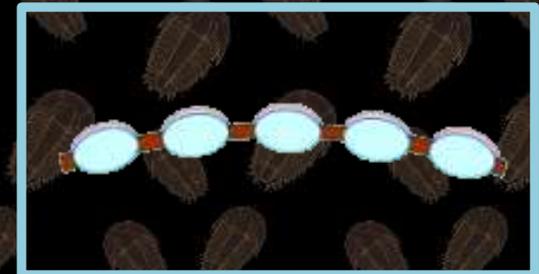
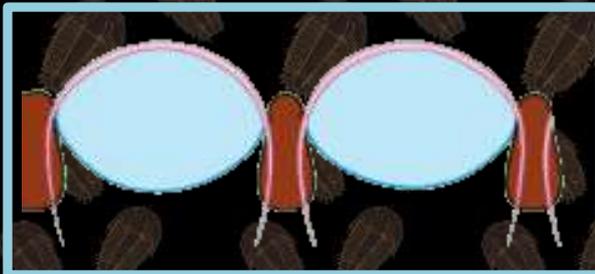
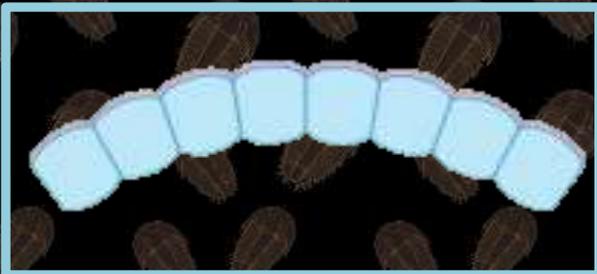
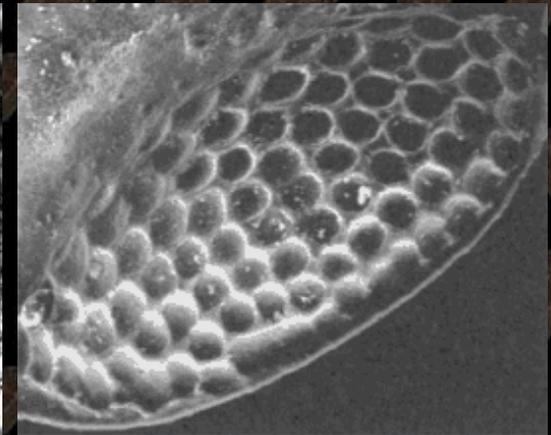
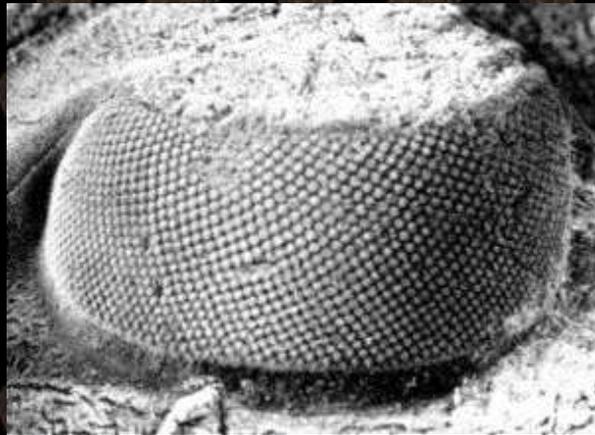
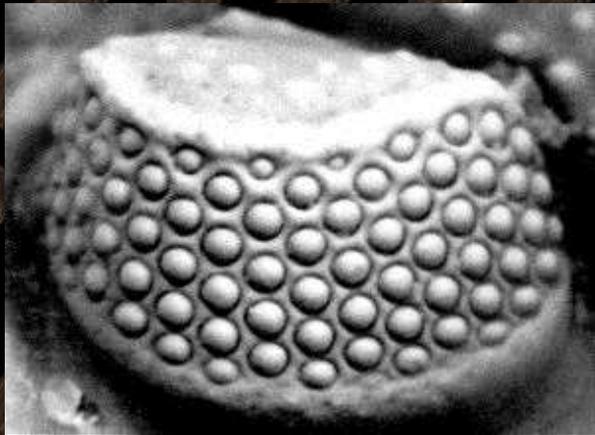
Iliaenus bayfieldi

O que são Trilobites?

Visão



© **As trilobites apresentavam olhos compostos – múltiplos olhos individuais, muito sensíveis ao movimento e variações de luz** ©



O que são Trilobites?

Visão



© Olhos compostos ©



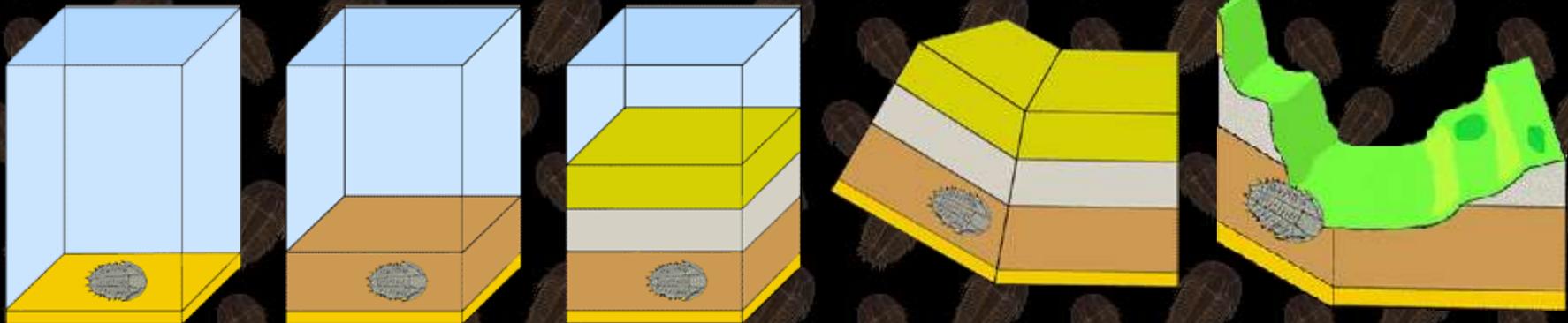
O que são Trilobites?

Fossilização



© **Fósseis** = restos ou vestígios de seres vivos que viveram no passado e ficaram preservados nas rochas

Fossilização:



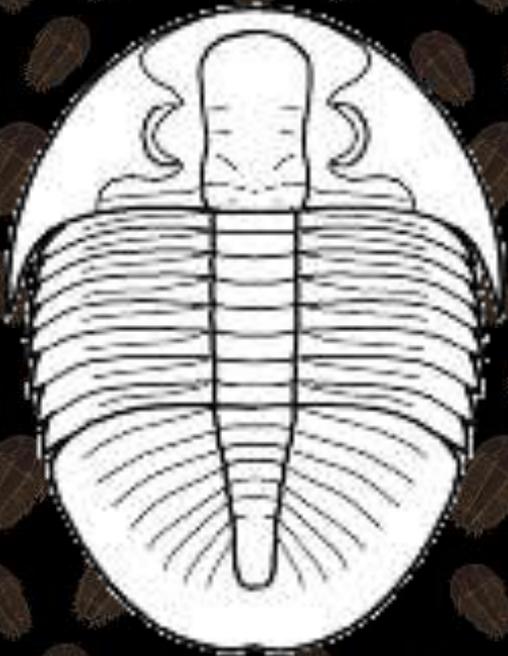
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Visão

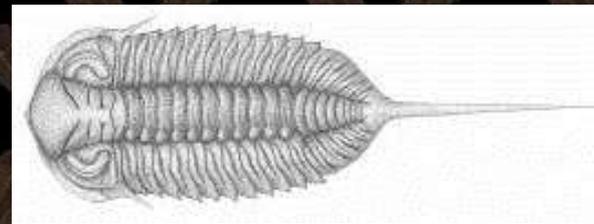
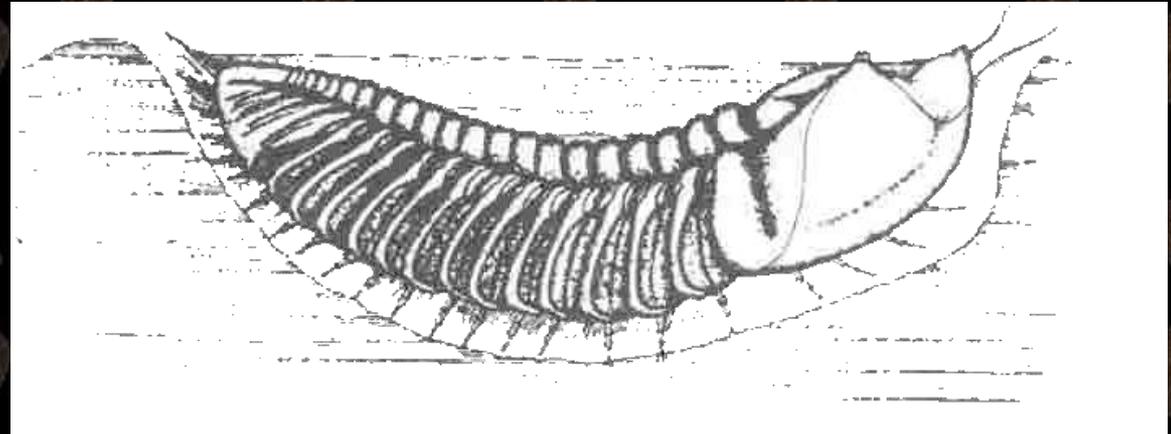


Trilobites de Penha Garcia

Asafidios



Neseuretus



Eodalmanitina

www.trilobites.fr