

The Whale

Evolution or absolution ?



This lesson assumes

you have a basic understanding of the Theory of Evolution.

You have a basic understanding of the history of the development of the Theory of Evolution & Genetic Selection (Darwin, Mendel etc).

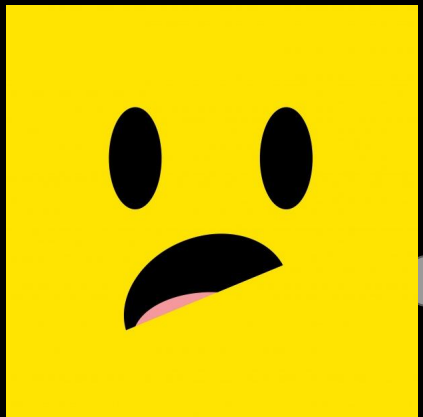
You have a basic understanding of The Scientific Method, Reasoning, Falsification,

You're a ToK Student who understands KQs, AoKs, WoKs, KF, PK, SK, KP/KIs



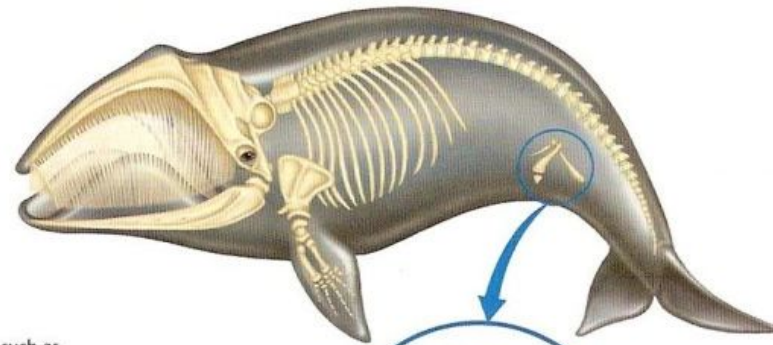
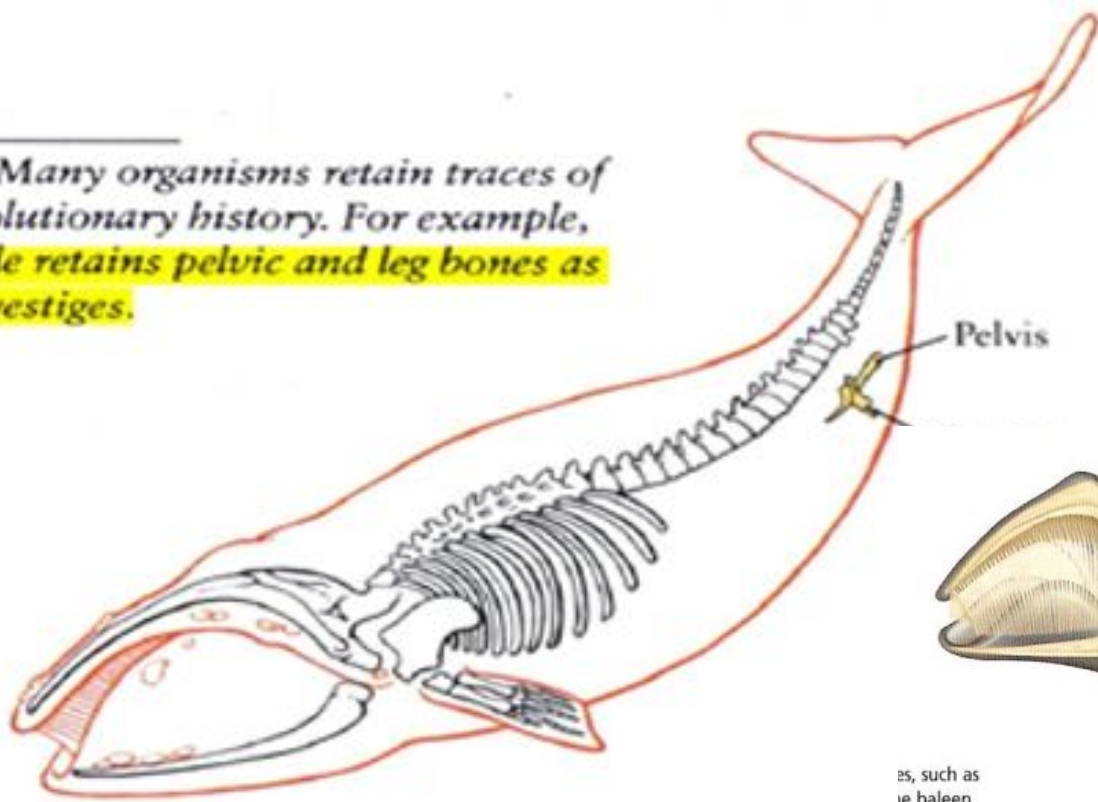
you have some comprehension of the timeline of life on earth, the relatively recent arrival of Homo Sapiens

If not, then you will have these understandings by the end of this project !



"What's that ?!*&*!?"

46-12 Many organisms retain traces of their evolutionary history. For example, the whale retains pelvic and leg bones as useless vestiges.



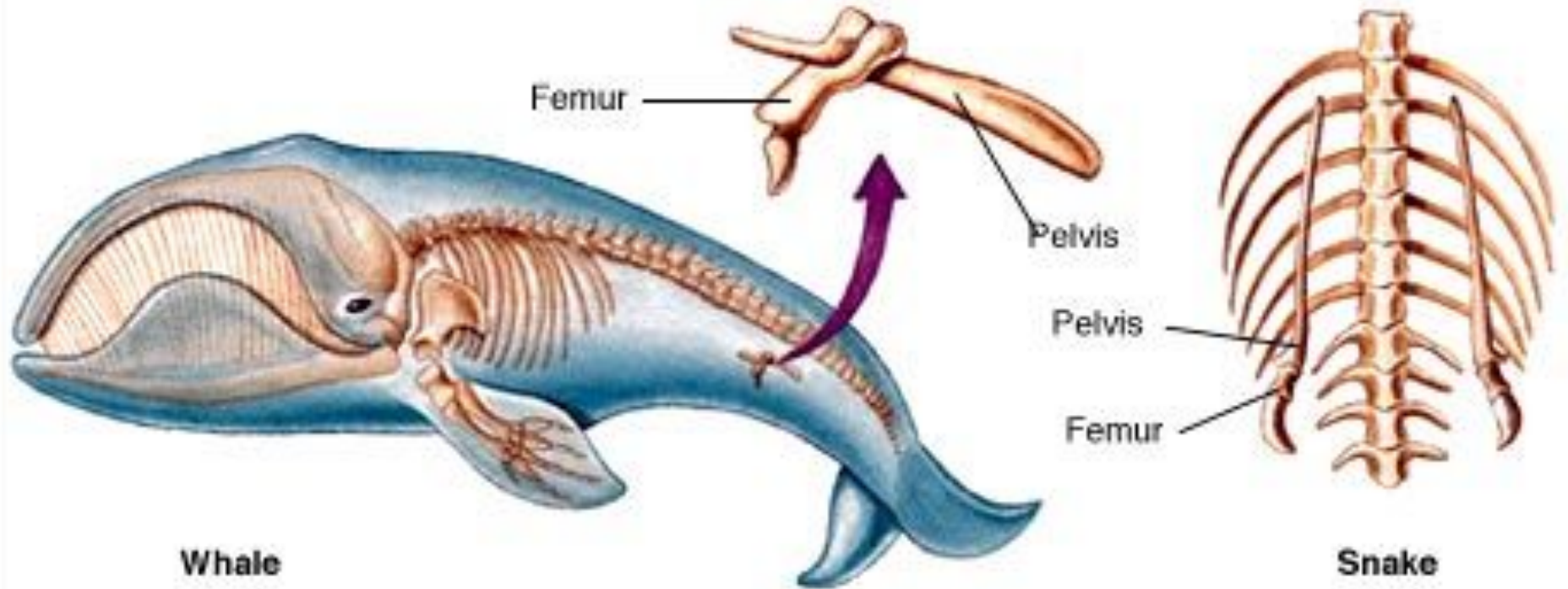
es, such as
ie baleen
nce of evolu-
r show struc-
r time.



Cetaceans have Pelvic Bones !

Working in groups:

Generate as many Q's & First Order Q's as possible - make sure that each member of the group has a copy of these questions, and now store them away safely somewhere.



AoK Expert Specialists.

Now divide into AoK Expert Specialists.

Decide which aoK Specialist Group you are going to join:

- [AoK History.](#)
- [AoK The Natural Sciences.](#)
- [AoK Religious Knowledge Systems.](#)



Click on the link to
take you to your
Specialist Page.



After you have considered the questions on your AoK Specialist Page continue as a whole class with the next slide

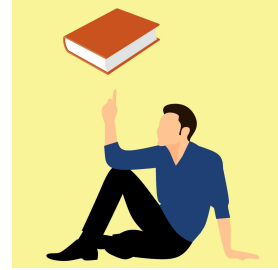
The Whale's Pelvis

In your AoK Expert Group retrieve the Questions & First Order Questions that you originally came up with.

Consider each of your original questions from the perspective of your specialist AoK - you can mindmap answers at this point.

Now you have a choice

- The Poetry, Songwriting & Rap Challenge Route.
- The Performing Arts & Film Route.
- The Lovin' Literacy Route.



The Lovin' Literacy Route

Your task is to write an essay answering the question: “***Can AoK _____ adequately explain why Whales have Pelvic Bones ?***”.

You could use the following structure as a starting point for your essay:

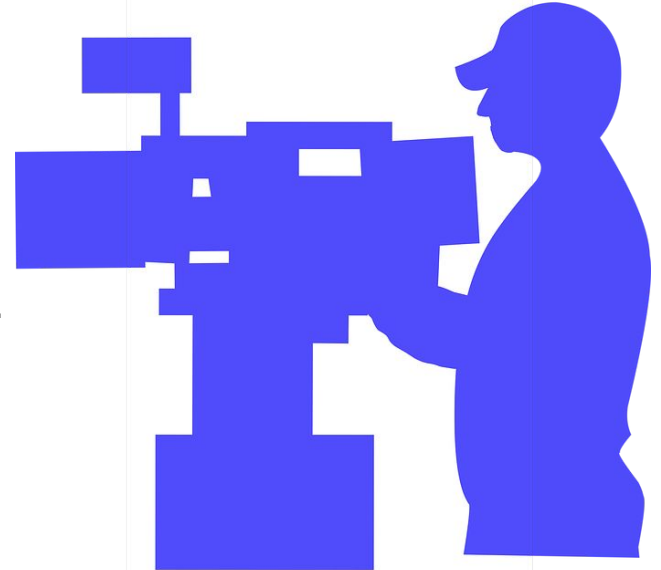
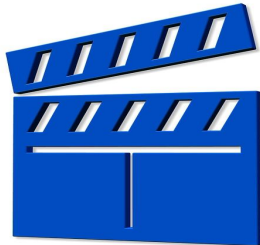
- How would AoK A investigate why whales have pelvic bones ?
- What are the strengths of the use of this methodology in answering this question (think of the aims of the AoK).
- What are the weaknesses of the use of this methodology in answering this question ? (think of aims of AoK again).
- Evaluatory conclusion - is AoK A adequate ?
- What are the implications of your Evaluatory Conclusion ?

Performing Arts & Film Route.

Your task is to make a current affairs / nature documentary type short film asking the question “***Why do experts disagree over the origins of the Whale’s Pelvic Bones ?***”

You should:

- Play the role of experts from various AoK.
- Refer to the methodologies of the AoK.
- Cite Real Life evidence to support your argument.
- Have fun



The Poetry, Song Writing & Rap Battle Route.

Poetry: Write a poem which explores **the problems that your AoK specialism would have answering the question “*Why do Whales have Pelvic bones ?*”**

Song Writing: Write a poem exploring how your AoK (& the other AoKs ?) would answer the question “Why do Whales have Pelvic Bones ?” Team up with musical minded ToKers, compose music to your words, perform it, film it and upload your songs in the comments at www.ToKTrump.wordpress.com

Rap Battle: Team up with a fellow rap wordsmith from a different AoK and write a Rap Battle over **Which AoK could better answer the question “Why do Whales have Pelvic Bones ?”**