Task 1, 2 and 3 - Evidence for Evolution

Aim: To examine the evidence demonstrating how living things have evolved.

To learn about this area of the topic, I have sent several videos for you to watch. The sensible thing to do, as you watch the videos, is to make notes.

Task: The final task will be for you to produce an illustrated **flow diagram** explaining how fossils are formed. Here is an example from last year

A flow diagram - uses arrows and numbered points to explain a point.



Learning Point 1 - Recap prior learning

Watch - What is natural selection?



What is Natural Selection? Stated Clearly • 1.9M views • 6 years ago

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https://www.youtube.com/watch?v=OSCjhI86grU

<u>Learning point 2a - Scientist use different ways of observing the</u> evolutionary process:

- Comparative Anatomy (comparing body parts)
- 2. Embryology and development (studying the fetus in the mother's womb - before birth)
- 3. Fossil Records
- 4. DNA

Watch: What is DNA and how does it work?



What is DNA and How Does it Work?

Stated Clearly • 2.9M views • 7 years ago

Click this link to take a survey about this video: https://www.surveymonkey.com/r/VM8CFFL Support Stated Clearly on Patreon ...

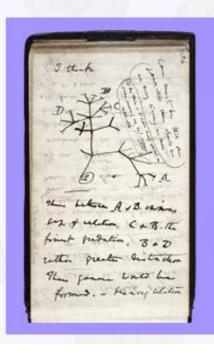
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https://www.youtube.com/watch?v=zwibqNGe4aY&t=103s

<u>Learning Point 2b – Darwin believed that all living things originated from a "Common Ancestor"</u>

Tree of Life

Darwin believed that
there was a single
point of origin for all
living things and that
we then evolved into
the living things that
we are today through a
process of adaptation.



This was the original diagram by Darwin that shows how all living things were related.

Watch: - What is the evidence for Evolution?



What is the Evidence for Evolution?

Stated Clearly * 3.5M views * 5 years ago

Support Stated Clearly on Patreon: https://www.patreon.com/stated clearly Biologists teach that all living things on Earth are ...

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https://www.youtube.com/watch?v=IIEoO5KdPvg&t=14s

<u>Learning Point 3</u> Darwin used fossils as evidence to support his theory of evolution.

Fossils can come in a variety of forms:

- 1) Preserved animals (Frozen)
- 2) Tree sap (Amber)
- 3) Mould and cast

Watch - How are fossils made?

How are fossils made? Part of Science Rocks, soils and fossils

+ Add to My Bitesize



https://www.bbc.co.uk/bitesize/topics/z9bbkqt/articles/z2ym2p3

Watch - What's a Fossil?



WHAT'S A FOSSIL?

Fiona Passantino • 1M views • 8 years ago

Fossils are the stone remains of animals or plants that were once alive. Fossils can be the bones of a dead dinosaur or his big \dots

https://www.youtube.com/watch?v=3rkGuOBItKM

Watch - What are fossils and how are they formed?



What are fossils and how are they formed | Learn about...

learning junction 177K views • 1 year ago

https://www.youtube.com/watch?v=xQBkawjFVIA

Watch - Top 10 Animal Fossils Frozen in Time



Top 10 Animal Fossils Frozen in Time

DailyTop10s • 49K views • 1 year ago

List Jumbo is a Disney Partnered Channel! These animal fossils have been frozen in time for millions of years. Today we're taking ...

https://www.youtube.com/watch?v=X3asdnyWmSs

Watch - 10 Incredible Amber-Preserved Fossils That Show Life Millions Of Years Ago



10 Incredible Amber-Preserved Fossils That Show Life Millions Of Years Ago

geobeats • 203K views • 4 years ago

Here are 10 extraordinary fossils that have been found preserved in amber. Amber certainly makes beautiful jewelry, but its clarity \dots

https://www.youtube.com/watch?v=P1cj_vri74U

*** Not for the squeamish***

Watch - 11 Most Well Preserved Animals



11 Most Well Perserved Animals

Weird Science • 760K views • 3 years ago

From lion cubs found frozen to the discovery of the best specimen ever even going on to try and extract DNA from the baby ...

https://www.youtube.com/watch?v=7SUJdhAhyoE