

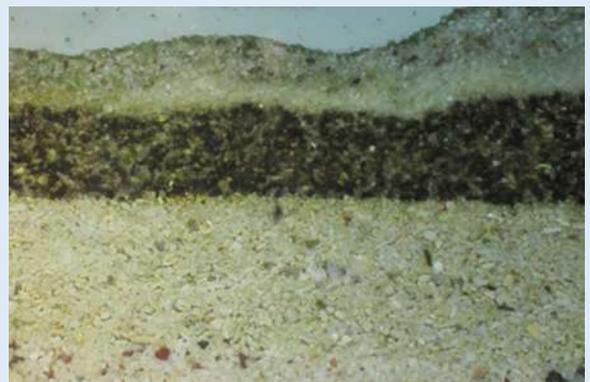


Does oil come from dead dinosaurs?

Why oil is normally found in **sedimentary rock** area?

Explore the activities below & decide for yourself

[Note: Malaysian oil wells are all offshore]



Checkout the **Sediments** exhibit. *[Teachers/parents guidance may be required]*

- Observe the layers of sediments.
 - Is there any physical differences between each layer?
 - What are the physical differences between the top & lowest layer?
 - Why are the sediments layered in such a way?
 - Is this how sedimentary rocks are formed?
- How do you think crude oil is formed?
- Are you using or holding any stuff that are made from crude oil?

TO EXPLORE

Watch this!

- The Rock Cycle <https://youtu.be/uAAeFB7Tv5A>
- The Making of Crude Oil <https://youtu.be/PiBmXC8w0jg>
- Oil and Gas Formation <https://youtu.be/8YHsxXEVB1M>



DO YOU KNOW?

There are 3 types of rocks: sedimentary, metamorphic & igneous.

Sedimentary rock

- Formed by the accumulation of sediments - sand, shells, pebbles, and other fragments of material.
- The sediment usually accumulates in layers & over a long period of time hardens into rock.

E.g. Limestone

Metamorphic rock

- Formed under the surface of the earth due to the metamorphosis (change) that occurs in the presence of intense heat & pressure (squeezing). *E.g. Marble*

Igneous rock

- Formed when magma (molten rock deep within the earth) cools & hardens.
- Sometimes the magma cools inside the earth, and other times it erupts onto the surface from volcanoes. *E.g. Basalt*

It takes millions of years to form crude oil and natural gas. As sedimentation occurs, chemical reactions create the carbon and hydrogen molecules that make up liquid or gaseous hydrocarbons. Check out the website below to know more.

More:

http://www.bbc.co.uk/bitesize/standard/chemistry/materialsfromoil/how_crude_oil_was_formed/revision/1/

LET'S INVESTIGATE!

- <http://www.proprofs.com/quiz-school/story.php?title=identify-rock-pictures>

Match the rock type with the images below:



A. Igneous rock



B. Metamorphic rock



C. Sedimentary rock

Why is oil found in sedimentary rock? After watching the 2 videos on the formation of oil, are you convinced that oil is not from dead dinosaurs?

Keywords: Rock cycle, sedimentary rock, igneous rock, metamorphic rock

