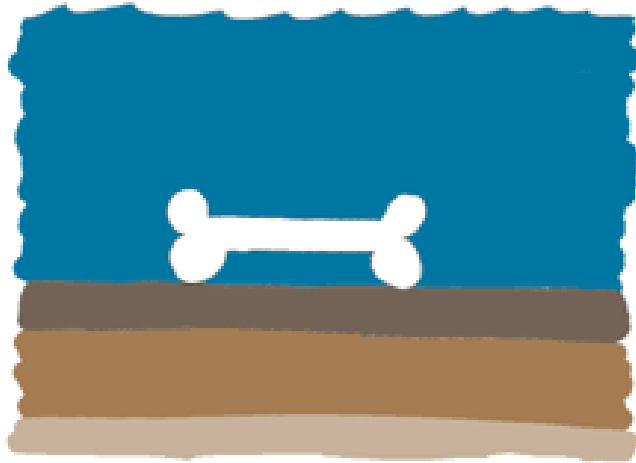


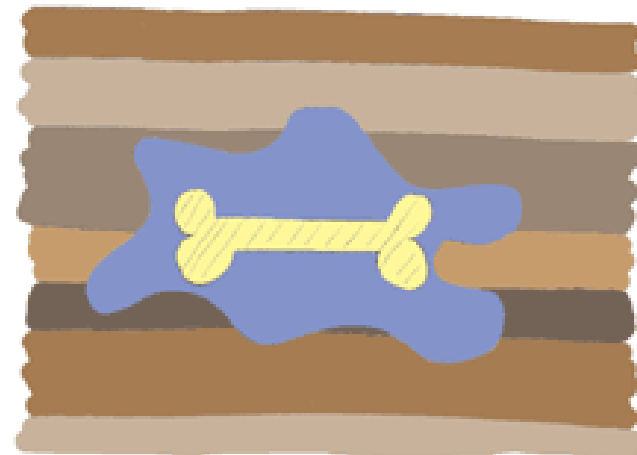
---

---



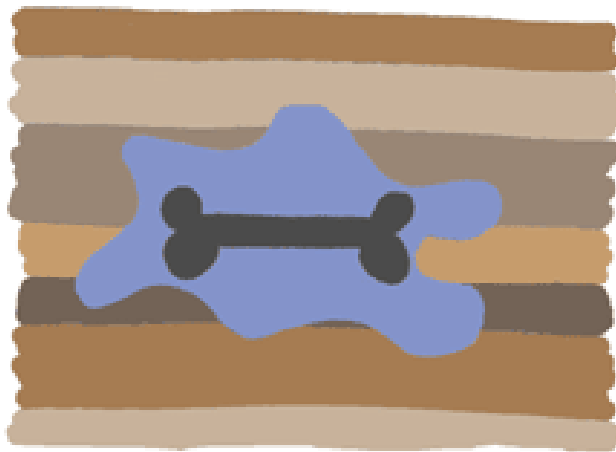
---

---



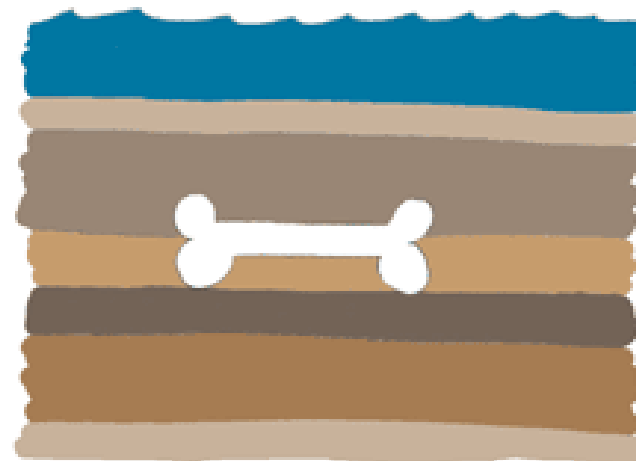
---

---



---

---



---

---

UKS2 **Topic: Dinosaurs and Fossils**  
Block A: Fossils and Rocks Session 3

## How are fossils formed?

Can you cut out these 5 pictures and put them in order? Can you write a sentence about what is happening in each picture?

Use these words:

sediment

minerals

pressure

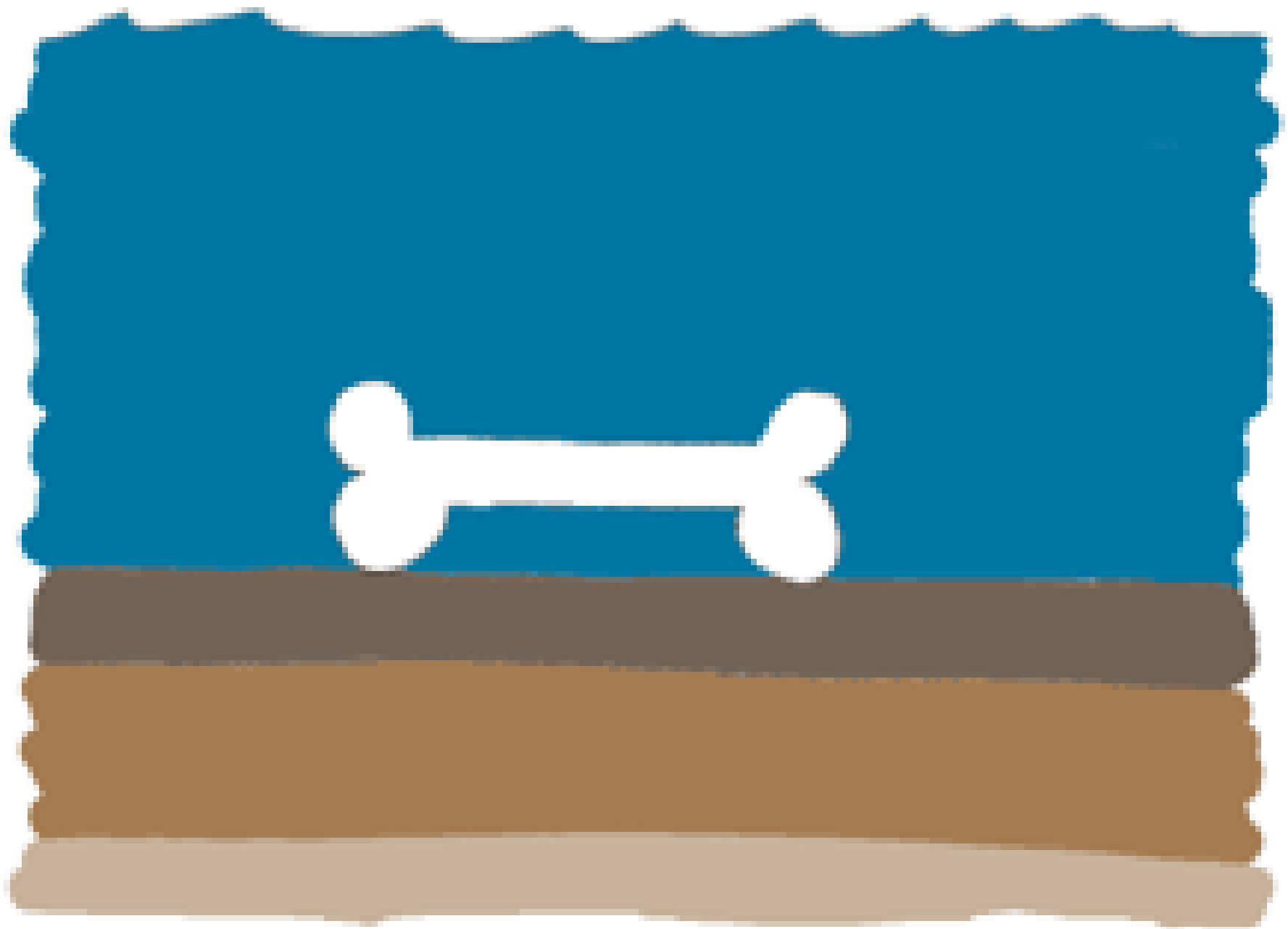
crystallise

dissolved

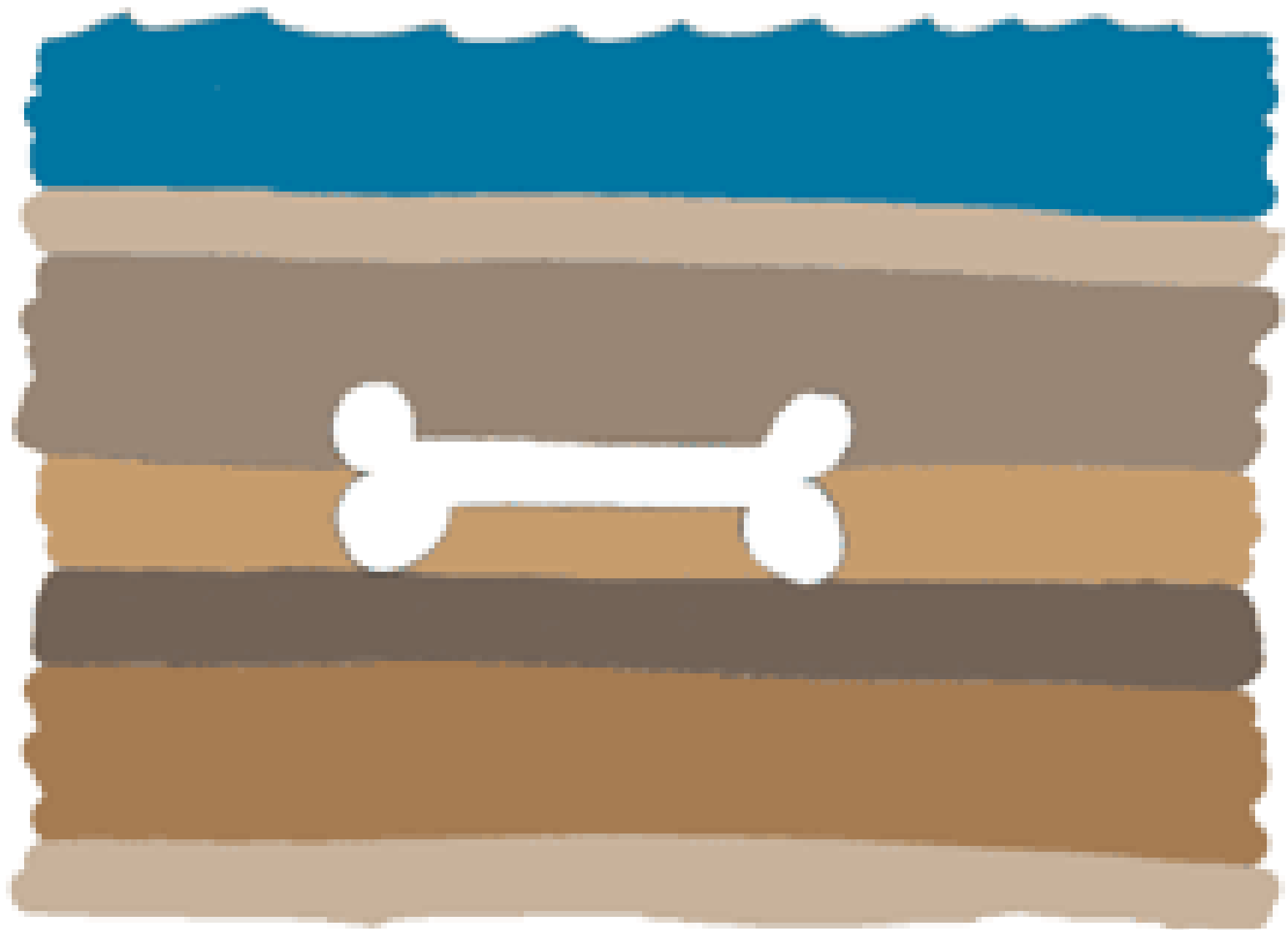
cast

natural mould

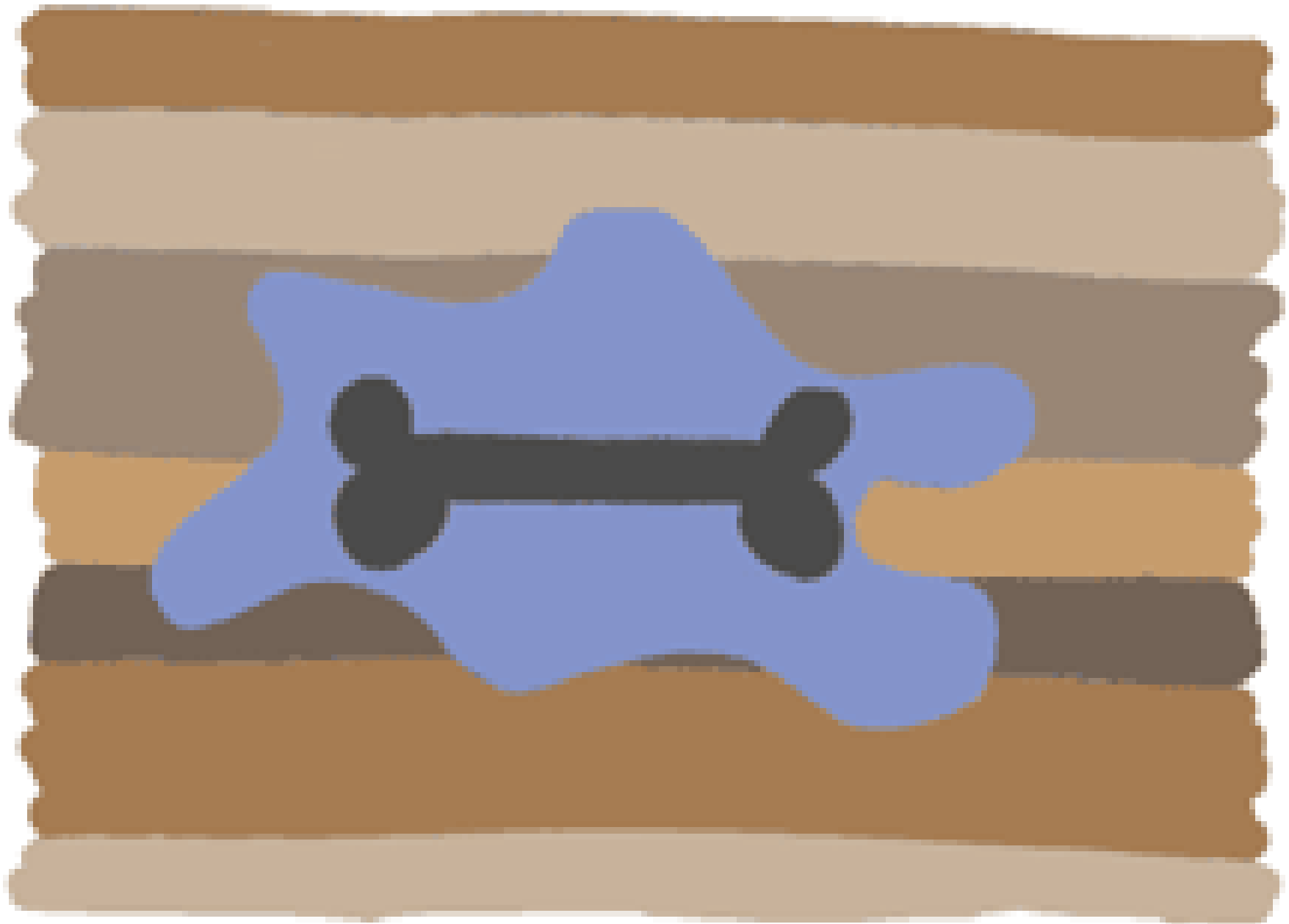
Images taken from Oxford University Museum of Natural History  
<http://www.oum.ox.ac.uk/thezone/fossils/intro/form.htm>  
We refer you to our warning, at the foot of the block overview,  
about links to other websites.



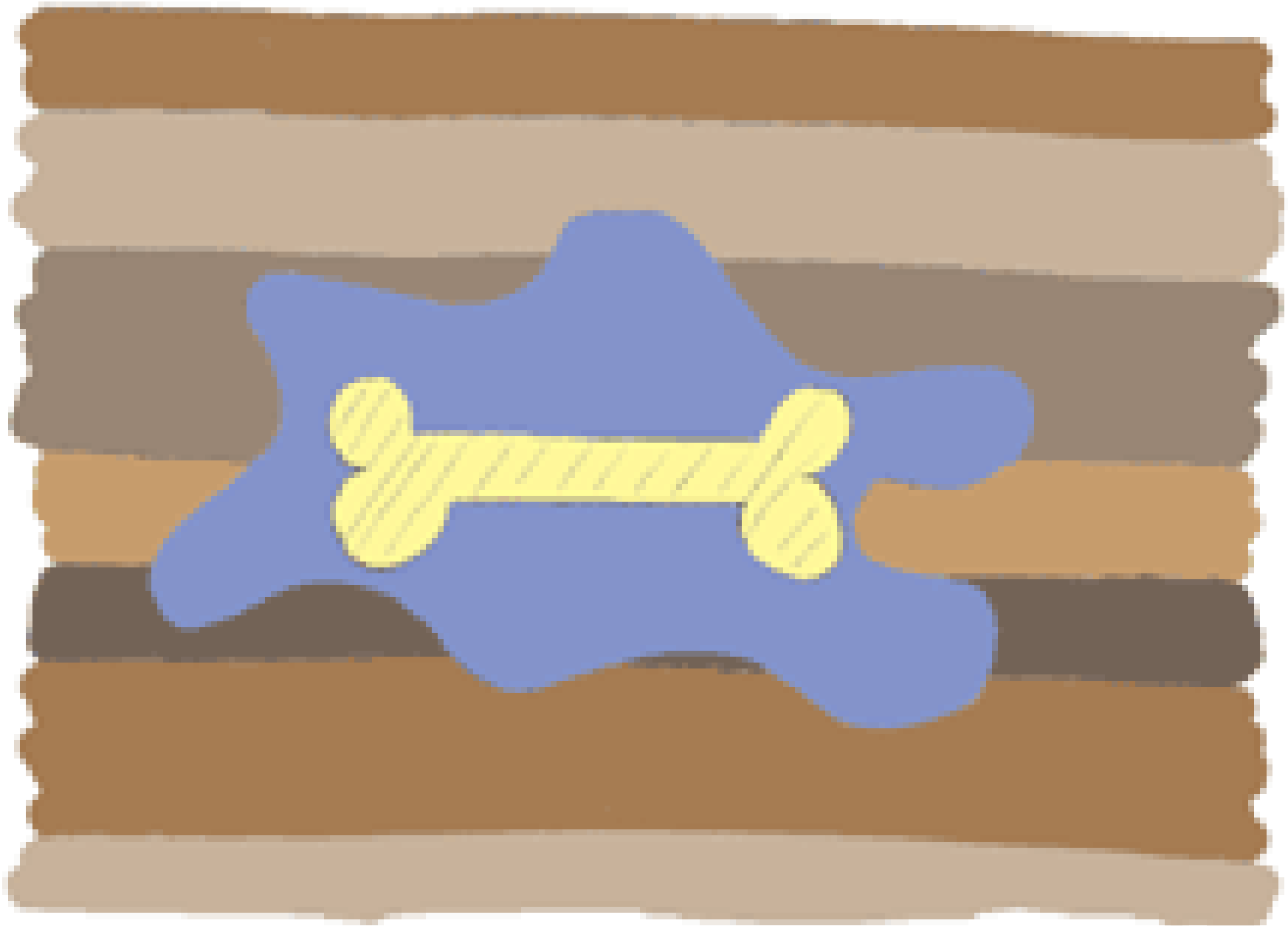
Images taken from Oxford University Museum of Natural History <http://www.oum.ox.ac.uk/thezone/fossils/intro/form.htm>  
We refer you to our warning, at the foot of the block overview, about links to other websites.



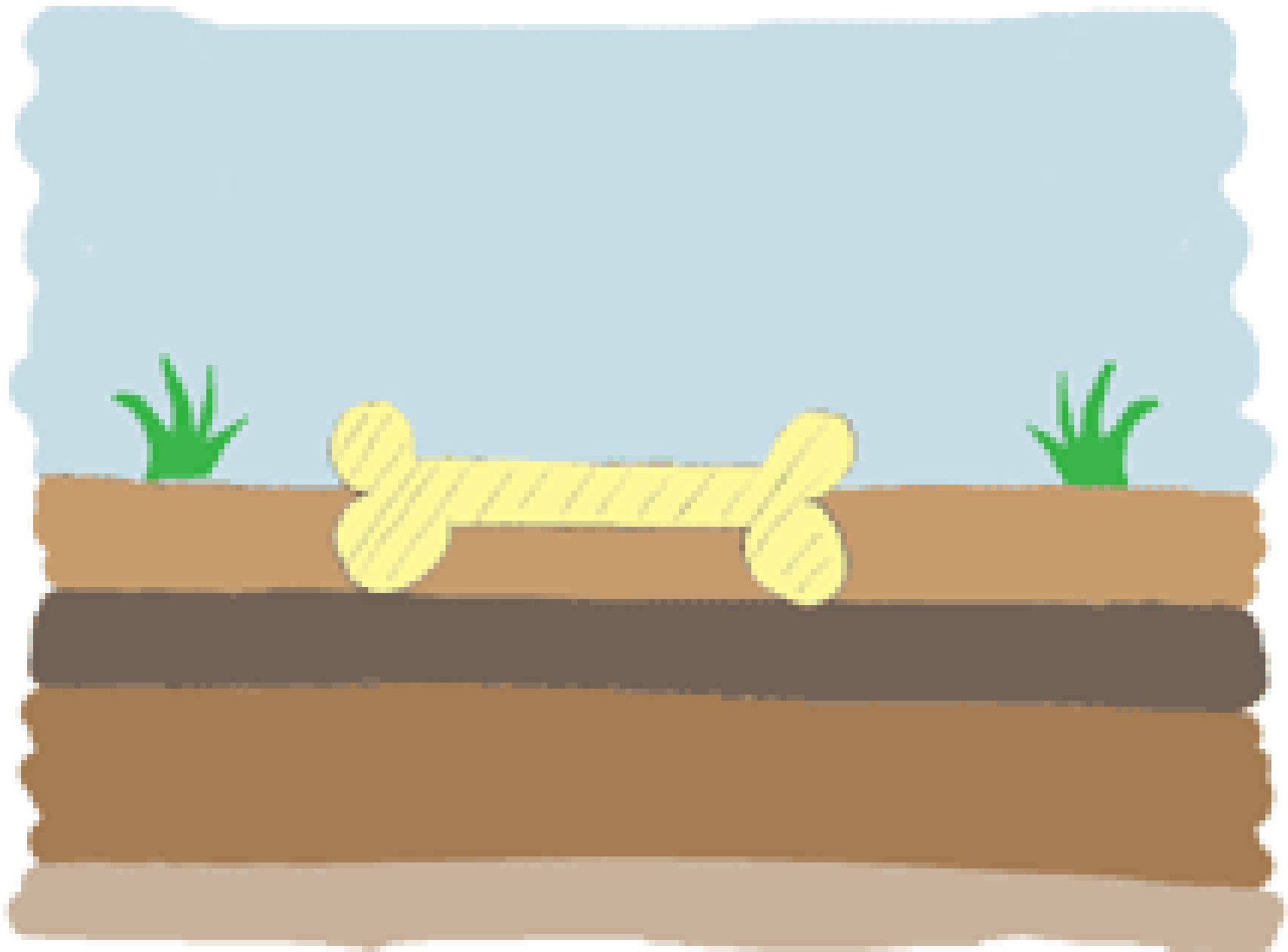
Images taken from Oxford University Museum of Natural History <http://www.oum.ox.ac.uk/thezone/fossils/intro/form.htm>  
We refer you to our warning, at the foot of the block overview, about links to other websites.



Images taken from Oxford University Museum of Natural History <http://www.oum.ox.ac.uk/thezone/fossils/intro/form.htm>  
We refer you to our warning, at the foot of the block overview, about links to other websites.



Images taken from Oxford University Museum of Natural History <http://www.oum.ox.ac.uk/thezone/fossils/intro/form.htm>  
We refer you to our warning, at the foot of the block overview, about links to other websites.



Images taken from Oxford University Museum of Natural History <http://www.oum.ox.ac.uk/thezone/fossils/intro/form.htm>  
We refer you to our warning, at the foot of the block overview, about links to other websites.

*Dino-Dictionary*

# Permineralization

*...the process of fossilization in which minerals, carried by water, form internal casts of organisms.*

*Dino-Dictionary*

# Silicification

*...minerals are released through the weathering of rocks and collect in little puddles of still water. This mineral water seeps into the dead organism, where it crystallises.*

*Dino-Dictionary*

# Pyritization

*...when fossilization happens in the sea and the sediment is full of iron minerals. As the dead organism decays it releases sulfide which reacts with dissolved iron in the water.*

*Dino-Dictionary*

# Petrification

*...a general word to describe the process of converting organic material into stone through the replacement of the original material and the filling of the original pore spaces with minerals (petrification, permineralization, and silicification).*





A cast fossil happens when the structure of the dead organism is filled with mineral-water.

All sorts of organisms have been fossilised.



Can you guess what this is?



A mould fossil is formed by the impression left in rock by the remains of an organism.

[www.eps.utk.edu/  
eps102.php](http://www.eps.utk.edu/eps102.php)



Amber is fossilized tree resin. Because it was originally a soft, sticky tree resin, amber sometimes contains animal and plant material. These are preserved exactly how they would have been when they fell into the resin.

[www.gemrockauctions.com/auctions/nr-gemstones/item-293732](http://www.gemrockauctions.com/auctions/nr-gemstones/item-293732)