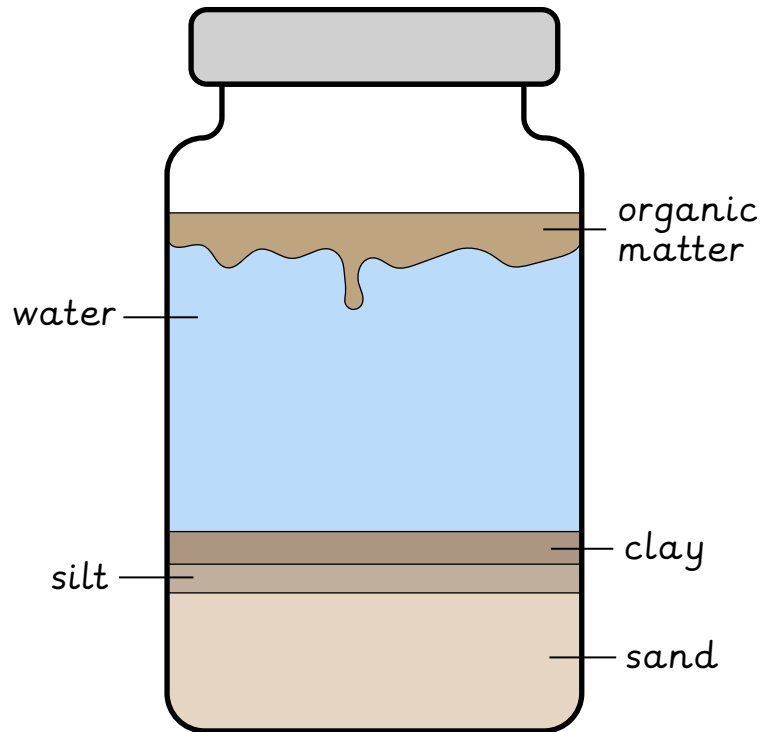


Rocks are formed in different ways and from different mixtures of minerals, other rocks and **organic materials**. This means their appearance and physical properties can vary.

Drainage rate is how quickly water passes through a soil.



Soil can be separated using sedimentation (mixing with water).



Peaty soil

- Mainly organic matter.
- Medium drainage.

Clay soil

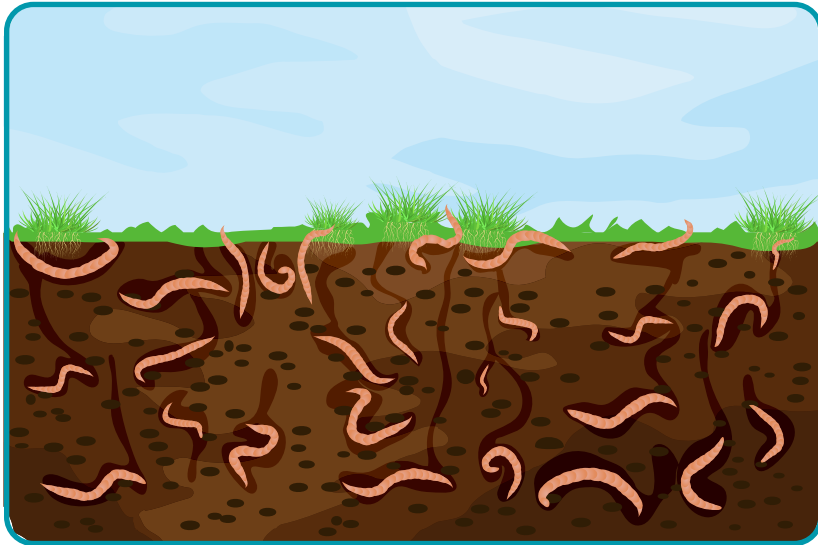
- Mainly clay grains.
- Drains slowly.

Loam soil

- Even amounts of sand, clay, silt and organic matter.
- Medium drainage.

Sandy soil

- Mainly sand grains.
- Drains quickly

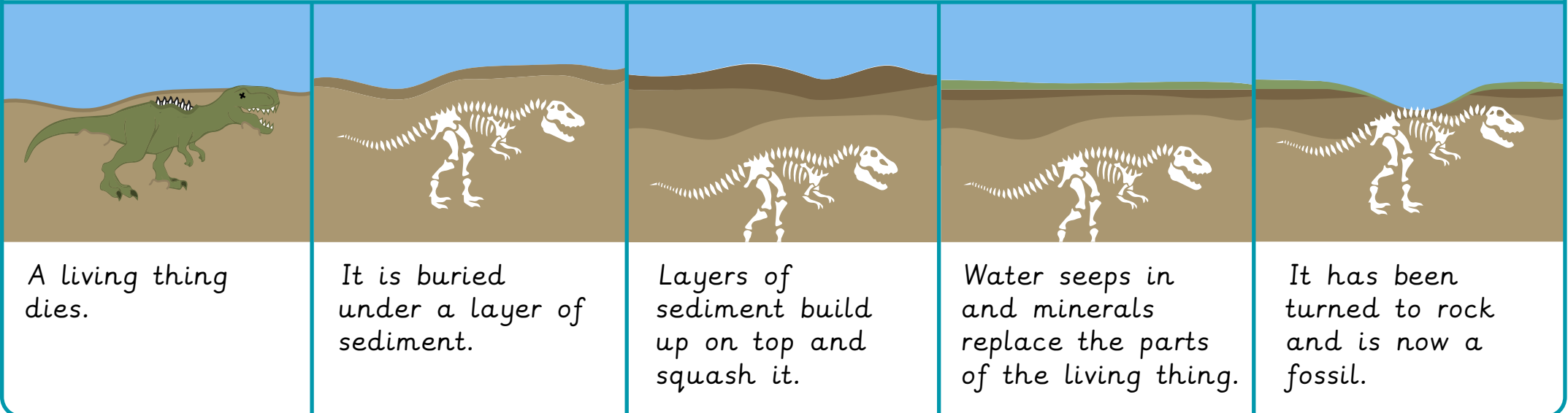




Rock can be broken down into small pieces called **sediment** by forces of nature like wind, rain, rivers, animals and plants.

Soil is made from **grains** of sediment, organic matter, water and air. Soil contains different sized grains of sediment:

- Clay (smallest).
- Silt (medium).
- Sand (largest).

A paleontologist is a scientist who studies fossils. Fossils can tell us about the living things from Earth's past.



Rock type	Appearance	Physical properties
granite	 <p>crystals</p>	<ul style="list-style-type: none"> • impermeable • no reaction to acid • hard
marble	 <p>crystals</p>	<ul style="list-style-type: none"> • impermeable • reacts to acid • medium
chalk	 <p>no crystals</p>	<ul style="list-style-type: none"> • permeable • reacts to acid • soft
slate	 <p>no crystals</p>	<ul style="list-style-type: none"> • impermeable • some react to acid • medium
sandstone	 <p>no crystals</p>	<ul style="list-style-type: none"> • permeable • some react to acid • soft