

C2: The Earth

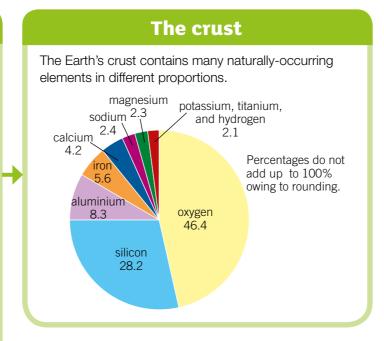
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Knowledge organiser

The Earth crust mantle outer core inner core

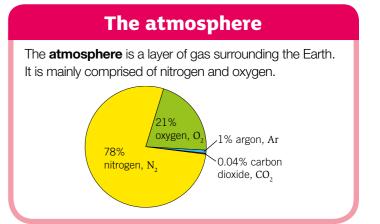
The Earth is made of several layers:

- The **crust** is rocky and solid.
- The **mantle** is solid rock but can flow.
- The **outer core** is liquid metal and the **inner core** is solid metal.

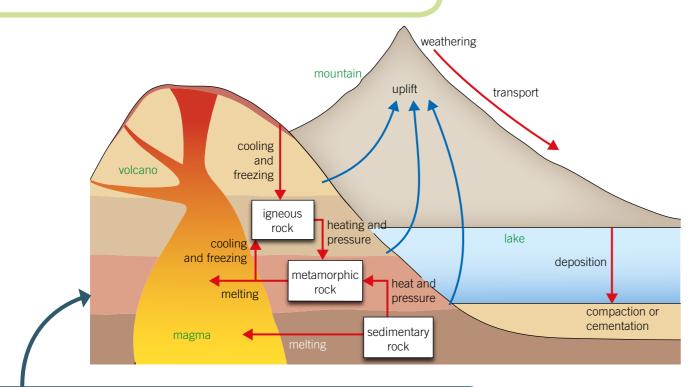


Types of rock

There are three types of rock that make up the Earth's crust. These are formed by different processes in the **rock cycle**, and have different properties.



Type of rock	How it is formed	Properties	Uses
sedimentary rock	 sediment piles up in one place and over many years stick together by compaction or cementation compaction: weight of sediments above squeeze them into rocks cementation: another substance sticks the sediments together 	 porous: made of small grains stuck together so there are holes that water can pass through soft: easy to break apart the sediments 	building materials (e.g., sandstone and limestone)
igneous rock	 when liquid rock cools it turns into igneous rocks these are made of crystals locked tightly together Magma: liquid rock underground – cools slowly and forms large crystals. Lava: liquid rock above the ground – cools quickly and forms small crystals. 	 Durable and hard (difficult to damage): the crystals are locked tightly together Not porous: there is no space between crystals 	pavement rail tracks
metamorphic rock	 other rocks under the Earth are heated and put under pressure over time, these rocks become metamorphic 	Not porous: there is no space between crystals	marble used for kitchens slate used for roofing tiles



The rock cycle

Because the different rocks can turn into each other, we say that there is a rock cycle.



Make sure you can write definitions for these key terms.