

# Our Learning Keys

## Rocks

# Science

Year 3

Spring 1

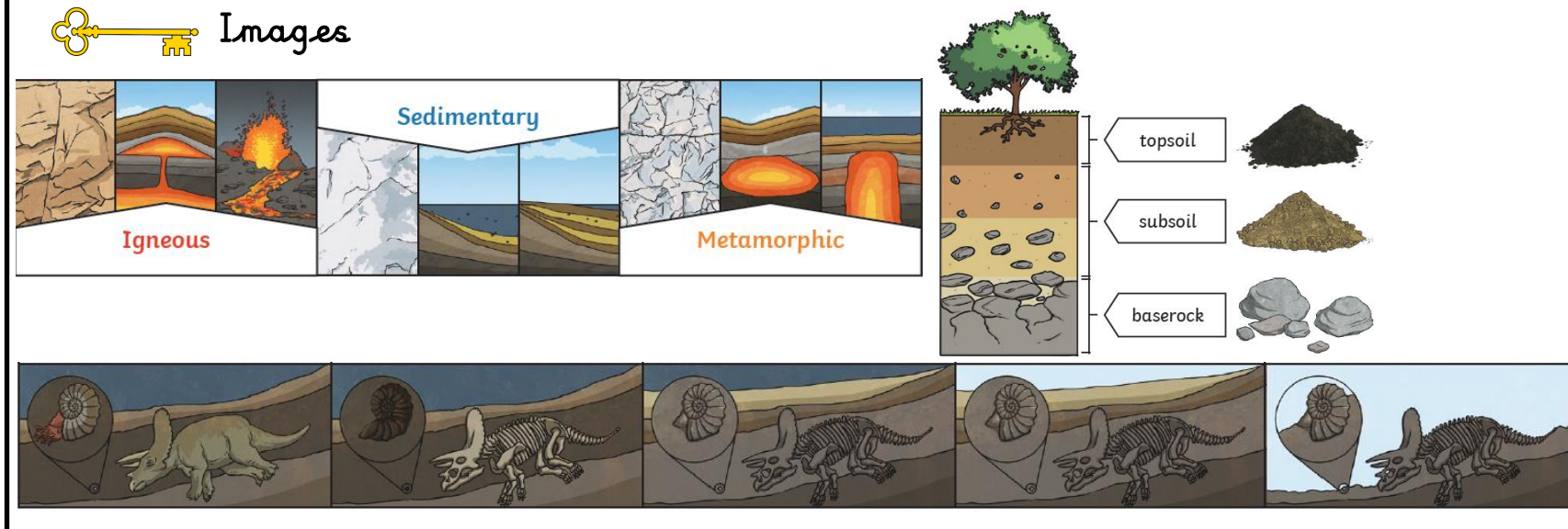
### Questions

- How is rock formed?
- Why do different types of rock look different?
- How are fossils created?
- What happens to different rocks in water?
- Which rocks can I find in my local area? Why?

### Vocabulary

lava	molten rock which is above ground
magma	molten rock which is underground
igneous rock	rock which was formed from lava or magma
sediment	tiny fragments of earth and rock which has settled in liquid
sedimentary rock	rock which has been formed from compressed sediment
metamorphic rock	sedimentary or igneous rock which has been put under extreme pressure or heat
pressure	the force when you press hard on something
permeable	allowing liquids to pass through (opposite: impermeable)
porous	containing small holes, which air and water can pass through

### Images



### Facts

- There are 3 main types of rock
  - Igneous - This rock is created when magma, or lava, cools to a solid.
    - Igneous rock which cools quickly can be very smooth and even shiny, like **obsidian**, or light and full of holes, like **pumice**.
    - Igneous rock which cools slowly can contain large crystals, like granite.
  - Sedimentary - This rock is created when sediment from rock and earth (as well as other materials) is compressed (squashed down) in layers underground. It is often clear to see the layers in the rock. Some examples are sandstone, limestone and chalk.
  - Metamorphic - This rock is formed when sedimentary or igneous rock is put under huge pressure or heated to extreme levels. Some examples are slate and marble.
- Fossilisation is where an animal dies and its skeleton is preserved underground. We know lots about the dinosaurs because of fossilisation.
- Caves are formed when water erodes the rock underneath the top layer

Previously...

In Key Stage 1, we learned that soil contains nutrients, which helps plants to grow. We learned that a material's properties make it suitable for some purposes.

Now

Next...

In Year 5, we learn about how materials can be changed in different ways.

### Links

- History - How archaeology gives us a view of the past
- History - The eruption of Vesuvius and the destruction of Pompeii.

Doors this will open...

Scientist

Geologist

Palaeontologist

Spelunker

