



KS3 Science
Earth & Atmosphere
Composition of Earth and the rock cycle



## The hidden dinosaurs...

One of the reasons that the Isle of Wight is so rich in fossils is because it is made up of sedimentary rock

#### **Student Introduction**

- Can you find out how fossils are formed and discovered?
- Can you discover why sedimentary rocks are more likely to contain fossils?



## **Understanding Sedimentary Rock**

There are three main types of rock: sedimentary, igneous and metamorphic. The diagram below shows how the rock cycle works, however we are interested in sedimentary rocks as these can contain many fossile.

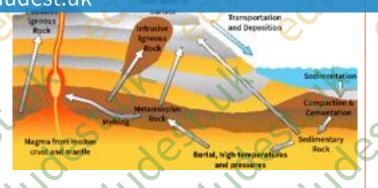
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pieces of rock along the way. This deposited rock education www.education.

<u>sediments</u>, hence the name sedimentary rock. The name for this process is <u>sedimentation</u>.

As these layers build up, the ones below are squashed tightly together (<u>compaction</u>), water is pushed out and crystals form - these act like a glue that holds the rocks together. This is a process called <u>cementation</u>. This process can take millions of years.



During your visit to the museum today you will see many fossilised items.

Can you find answers to the following questions?

### **Examples of sedimentary rocks include:**

- √ siltstone
- ✓ chalk
- shale
- ✓ sandstone
- **✓**  limestone

### Questions (continued on page 2...)

1. Sedimentary rocks can contain fossils of animals, plants or other organisms. How do you think they got in there?

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