



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.

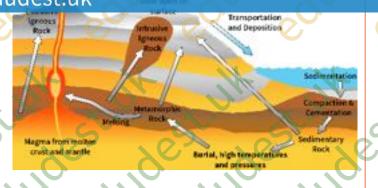
Teaching resources by Education Destination Ltd.

or lakes wCurriculum relevant materials supporting school trips to the Isle of Wight
Book today with Education Destination and get full access to this and hundreds more quality resources

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?

edudestillestillestillestillestillestille

X.	5.	5	3	S.	S.	S.		
69,	Questions 2. Why are fossils 'r	ock coloured'?	eding	eging	egn	reging	egng	0
	3. Explain the proce	ess of fossilisat	ion; Jil	estult	estul	est. ill	estulk	Š
SO	L ec	ec.	ea	ec, 7	ec.	ec	ec	e
Вс	Teachin Chang Curricu pook today with Edu Because large	lum relevant	t materials s lation and ge	upporting so	chool trips t to this and h u	o the Isle of W	/ight	ces
	-	tinction includ	r the answer a the beginning their lives to t ething must ha	s to what caus of the Paleoge ry and explain ave occurred o impact, inten	sed this mass eene Period. I this strange een a large, glob	event. Because s al scale and bee	so many en	25
	4. As you look arou theories?	ınd the museur	m, what evider	nce can you fir	nd to support a	\$ 1		e X
رزار	5. What effect wou creatures living on	ld these theore Earth?	etical events ha					0
91	102	©2014 Edu	ucation Destination www Dinosaur Isle	0,	p.uk		edul	200