



## Welcome to Ventnor!



### BEACH BUILDING!

The beach at Ventnor (pictured) is a **valuable resource** for the town.

What do you think that this means?

I think it means that...

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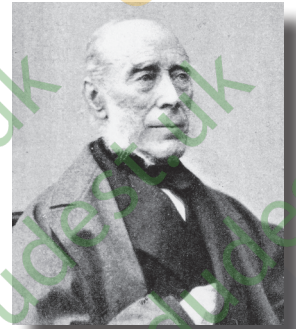


“The prettiest place I ever saw”

Sir Charles Dickens

“Nothing along the south coast will bear comparison to it”

Sir James Clarke



Find a good place to stand and look at the beach, seafront and town above.

Now make up a 'quote' to describe Ventnor in your own words...

So, the beach is a valuable resource and it has been admired by many over the years, including you!

But why is it here in the first place? Read the following paragraph - make sure you understand the **key terms** in bold text.

### SHIFTY SANDS...

Ventnor beach is made up of a mixture of sand and fine shingle. Waves have the power to **erode**, and have **eroded** (*broken away*) the cliffs on the nearby coastline. The dislodged material is then **transported** (*carried along*) in the water and worn down into smaller and smaller pieces. Pebbles, shingle and eventually sand are formed. In sheltered areas where the waves lose energy, material is **deposited** (*laid down*) and beaches are formed.



The sand and shingle you see on Ventnor beach is seriously shift...  
the beach...  
is called longshore drift, and this is how it works in a nutshell.

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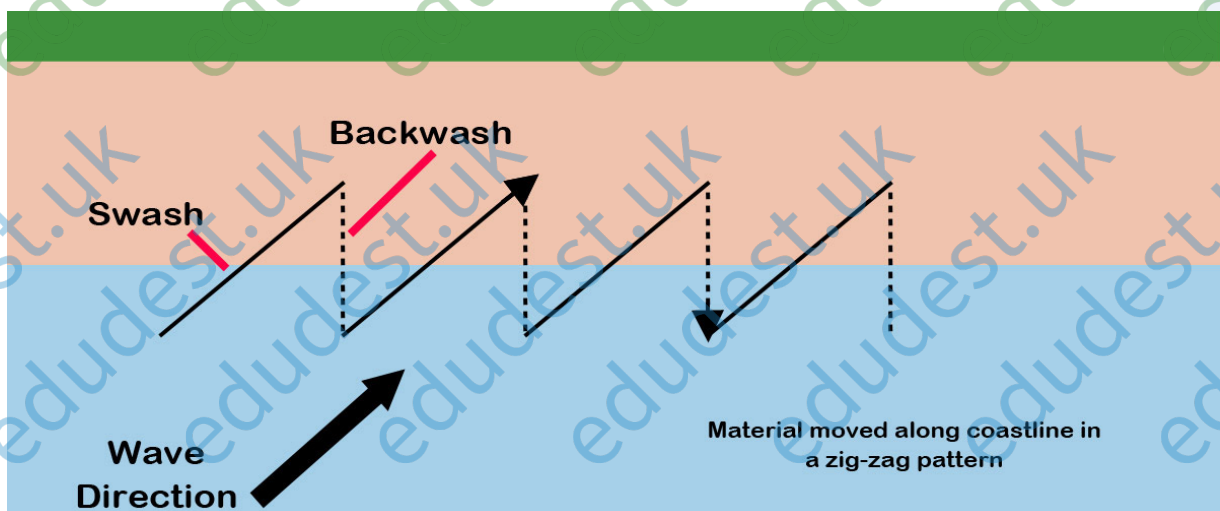
### How longshore drift works.

Get as close as you safely can to the water's edge. Watch the waves for a moment or two, and you will see how they move the sand and shingle as they come up the beach (**swash**) and then as they move down the beach again (**backwash**).

On a stormy day, this movement is very obvious, but even on a calm day you will see the tiny stones moving a little.

The swash and backwash gradually move the material along the coast from one place to another in a zig-zag pattern.

This is known as **longshore drift**.



Longshore drift diagram



**HUMAN ACTIVITY...**

The town of Ventnor has grown since the mid-19th Century, when the warm climate and fresh channel air was considered beneficial to health and several sanatoriums were established, taking patients from all over the country.

By the middle of the 20th century, Ventnor was thriving as a seaside resort, and is still popular today with holiday-makers.

What human activities can you spot? Find examples and then make a list under each category in the table ....

Look out for the following and also find examples of your own:



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CATEGORY	EXAMPLES OF HUMAN ACTIVITIES
Recreation/leisure	
Food and drink	
Shopping	
Accommodation	
Transport	
?	

**ART ATTACK!**

It's time to show what you have learnt... In the space below, draw a sketch of the beach, and label it to show the main features and also try to explain the physical (natural) processes taking place.... Then, add some labels to show the variety of different human features along the seafront behind the beach.



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**Things to LABEL:**

- ✓ Beach
- ✓ Sand
- ✓ Shingle
- ✓ Cliffs
- ✓ Human features (e.g. Sea Wall, Cafés).

**Things to EXPLAIN:**

- ✓ Process of Erosion
- ✓ Process of Transportation (including longshore drift)
- ✓ Deposition taking place.