all be seen feeding close to the shore. birds - eider duck, black guillemot and shags can At high tide there is good underwater feeding for

as rock pipits.

for the waders and also insect eating birds such during winter storms provide good feeding grounds Banks of seaweed washed up on the rocky shore



making them easy to overlook. camouflaged amongst the seaweed covered rocks, there. Both turnstones and purple sandpipers are upturned bills to find the sea creatures hiding over stones and moving seaweed with their short, as winkles. Turnstones are aptly named, turning amongst the seaweeds eating invertebrates such from rocks, while purple sandpipers probe The oystercatcher's bill is good for prising shellfish oystercatchers, turnstones and purple sandpipers. Rocky shores are favourite feeding grounds for

sping

crawling around, or sea urchins, sea slugs and you might see hermit crabs and dog whelks of sea life. Watching quietly beside a rock pool the easiest places for observing a great variety down the shore. This makes rock pools probably live here which would normally be much further $\mbox{d} \tau \lambda$ out completely it is possible for animals to is some water even at low tide. As they do not Many rocky shores have rock pools where there



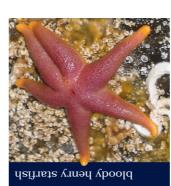
rock pool



in rock pools. found on the lower shore or green seaweeds are only very low tide. Most red and kelps are only exposed at a exposure, while the large can survive several hours of zonation; the brown wracks Seaweeds show a similar

much more. sponges, butterfish and starfish, brittlestars, tide mark you can see crabs, increases. Down near the low time, the variety of life exposed for only a short shore, where the rocks are As you go further down the

stones and seaweed. survive here by hiding under sea anemones can also tide is out. Shore crabs and inside their shells when the and winkles live here and hide a time. Limpets, barnacles the sea for several hours at rocks can be uncovered by the high and low tide levels, In the middle shore, between



slaters and nerite winkles hiding in crevices. the average high tide level. Here you can find sea creatures can survive in the splash zone above long the area is uncovered by the sea. Only a few different animals and plants according to how a series of horizontal zones, each containing twice daily tidal cycle. The shore is divided into All life on the rocky shore is influenced by the

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rock pools support a much greater variety of life. limpets, can survive. More sheltered shores and hardiest of creatures, such as barnacles and bombardment of the sea means that only the On very exposed shores the constant

finding seashore anímals

- Look carefully amongst seaweed
- Lift stones and look underneath but always replace rocks in the same position and the same
- Sit quietly by a rock pool and watch

seashore code

- Life on the shore is fascinating to look at, but we also need to treat it with respect
- Watch shorelife without disturbing it
- If you really want a closer look, collect one animal carefully and place in a bucket of seawater for a short time only
- Return sea creatures to the spot where you found them
- Don't pull shells like limpets off the rocks
- Protect animal's homes. If you lift rocks or move seaweeds, replace them carefully the way you found them
- Don't pull seaweeds off the rocks, there is usually loose weed around
- Don't take creatures home in a bucket, they won't live long
- Only take home empty shells
- Leave bird corpses on the beach, they are counted in a monthly beached bird survey

besafe ontheshore

- Take care on slippery rocks and seaweed
- Be aware of the incoming tide
- Watch out for waves
- Flotsam and jetsam washed up on the beach can be dangerous - leave well alone

please remember

- To take care on cliffs they can be dangerous
- To avoid disturbing nesting birds
- To keep dogs under control at all times
- To take your litter home with you
- Not to pick wild flowers
- Respect private property







and illust

and under overhangs or in rock pools. by hiding under seaweed or stones, in crevices inside their hard shells. Other creatures survive to rocks and seaweed and hide their soft bodies shells. When the tide is out they attach themselves Some animals have adapted by developing hard

when they are not covered by seawater. coat themselves in mucus to prevent drying out holdfasts. They have thick leathery fronds and Seaweeds attach themselves to rocks with strong

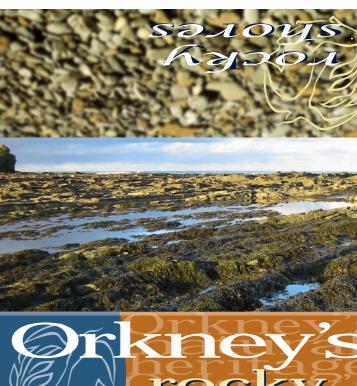
ways to adapt to the continually changing Animals and plants on the rocky shore have found



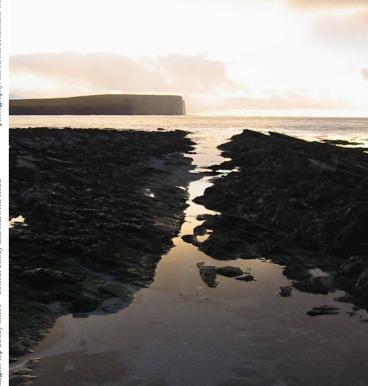
with the tide.

and being eaten by large predators who come in of being swept away by strong currents or waves move about and feed, but there is still the danger by other animals. When the tide is in animals can out, getting too hot or too cold and being eaten At low tide life on the shore has to survive drying

brings with it other dangers. are left high and dry; when the tide comes in it the tide goes out many marine plants and animals The rocky shore is a difficult place to live - when







find out more about our

rich and varied wildlife



Birsay shoreline