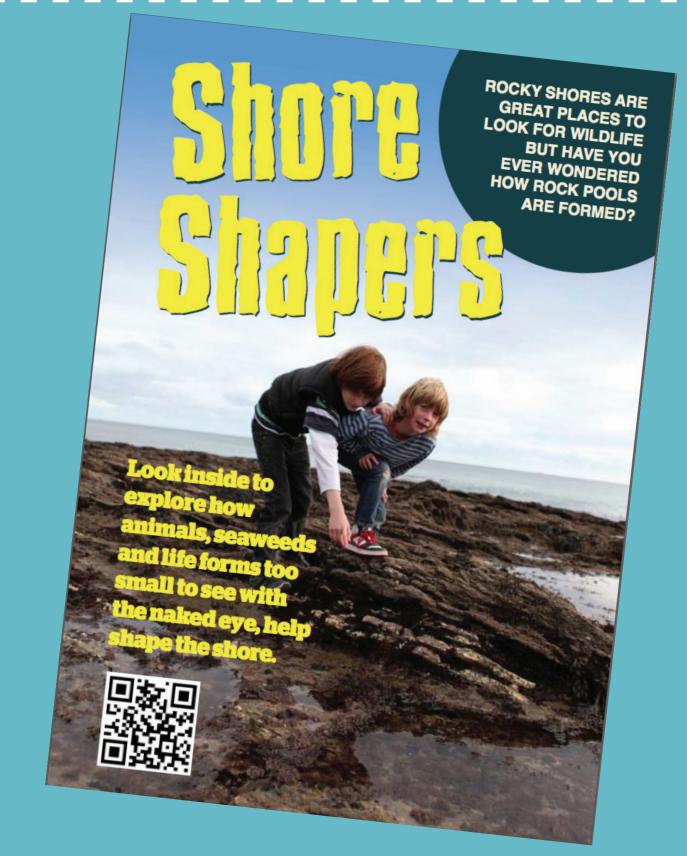
SHORE SHAPERS USES A FIELD GUIDE, WORKSHOPS, TRAINING AND ONLINE RESOURCES TO HIGHLIGHT HOW ANIMALS, SEAWEEDS AND LIFE FORMS TOO SMALL TO SEE WITH THE NAKED EYE HELP SHAPE THE COAST, MAKING ROCKY SHORES ATTRACTIVE TO MARVEL AT, EXPLORE AND ENJOY.



The UK's first biogeomorphology field guide for families and schools including games, challenges and information.

Waves hitting rocks can

from the sun

and water from the

cooling and drying

makes them contract.

sea make rocks

expand.

This **breaks** 

rocks slowly

Salt in seawater

also cracks rocks

crystallises.

over time.

when it

. . . . . . . . . . . . . . . .

cause them to

#### SHORE SHAPERS

are the living things that help to 'shape' rocks on the shore. Some you can see and some are too small.

groups of shore shaper



Rock eaters shape rocky shores by eating or dislodging rock particles as they feed.



Rock borers Are like living drills, grinding or dissolving rock as they excavate a home.



Shore Shapers

Guide.

Rock protectors form crusts or blanket rocks protecting them from the elements.



Pools and crevices partly made by shore shapers provide places animals more shore more features different things can live there.

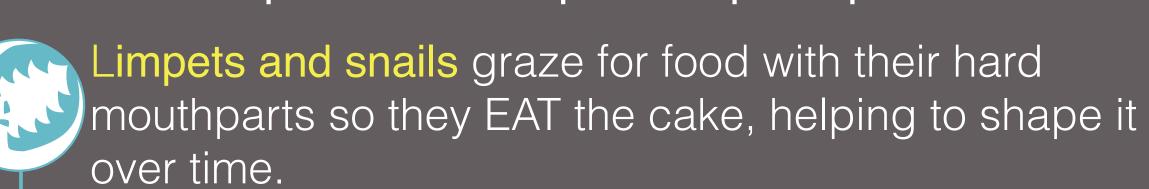


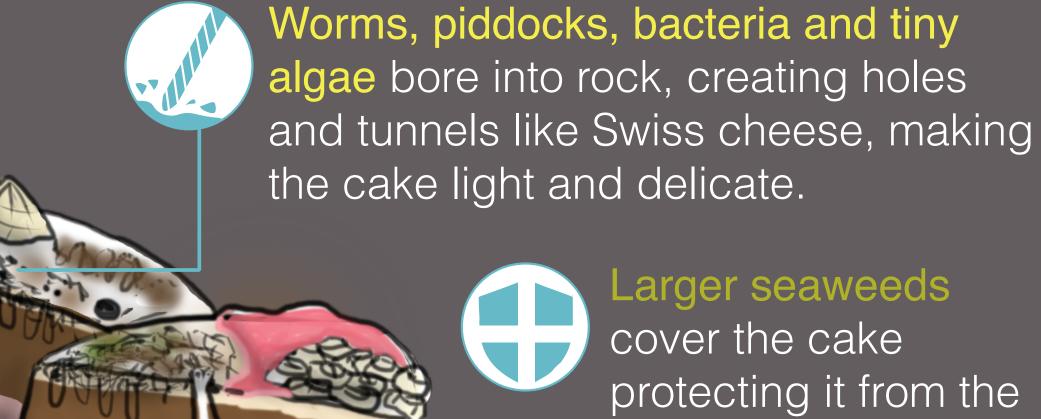
Sun, wind, frost, rain, and the sea wear away rock, playing an important role in shaping the shore, as do the things that live there. This is called **geomorphology**.



### THINK OF THE ROCK YOU SEE AS A CAKE!

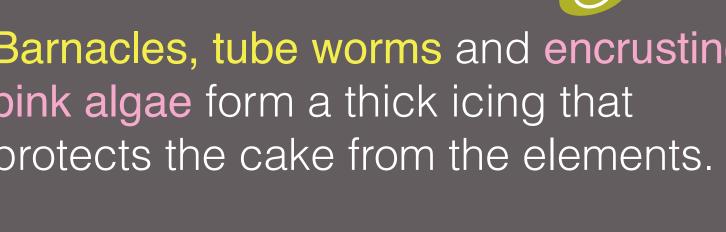
The type of cake depends on the rock type as softer kinds are easier to sculpt. Shore Shapers help shape the cake.





Larger seaweeds protecting it from the elements and keeping o it from getting too dry – like clingfilm!







## : Did it Work?

A survey of 77 people (36 children aged under 16 and 41 adults) conducted using a draft version of the guide showed that 82% of participants had a better understanding of how rock pools form and change over time, after seeing the guide. 90% surveyed found some species more interesting than they had previously thought, with limpets and boring worms voted most interesting!

# www.shoreshapers.org



(1) University of Glasgow, School of Geographical and Earth Sciences, UK. (larissa.naylor@glasgow.ac.uk). (2) European Centre for Human Health and Environment University of Exeter, UK. (3)University of Oxford, Oxford University Centre for the Environment, South Parks Road, Oxford, UK. (4) Marine Biological Association of the UK, Citadel Hill, the Hoe, Plymouth, UK. (5) School of Biological Sciences, Faculty of Science and Environment, University of Plymouth, Plymouth, UK



**Sometimes** with the second se

shoreshapers@gmail.com

This multi-partner project has been funded by the Esmée Fairbairn Foundation.















