

All About Waves

Coasts

Hello Year 7!

This week we will look at the coastal process of Longshore drift. Follow through the slides completing tasks as you go.

First – recap constructive and destructive from the previous weeks learning.

Next – read through the diagrams that explain the process of Longshore Drift. Then, complete the worksheet and draw a diagram that shows the process

Finally – complete the revision exercise and decide whether or not processes are constructive or destructive!

The Two Main Types of Waves

Recap constructive and destructive wave types!

Constructive Waves

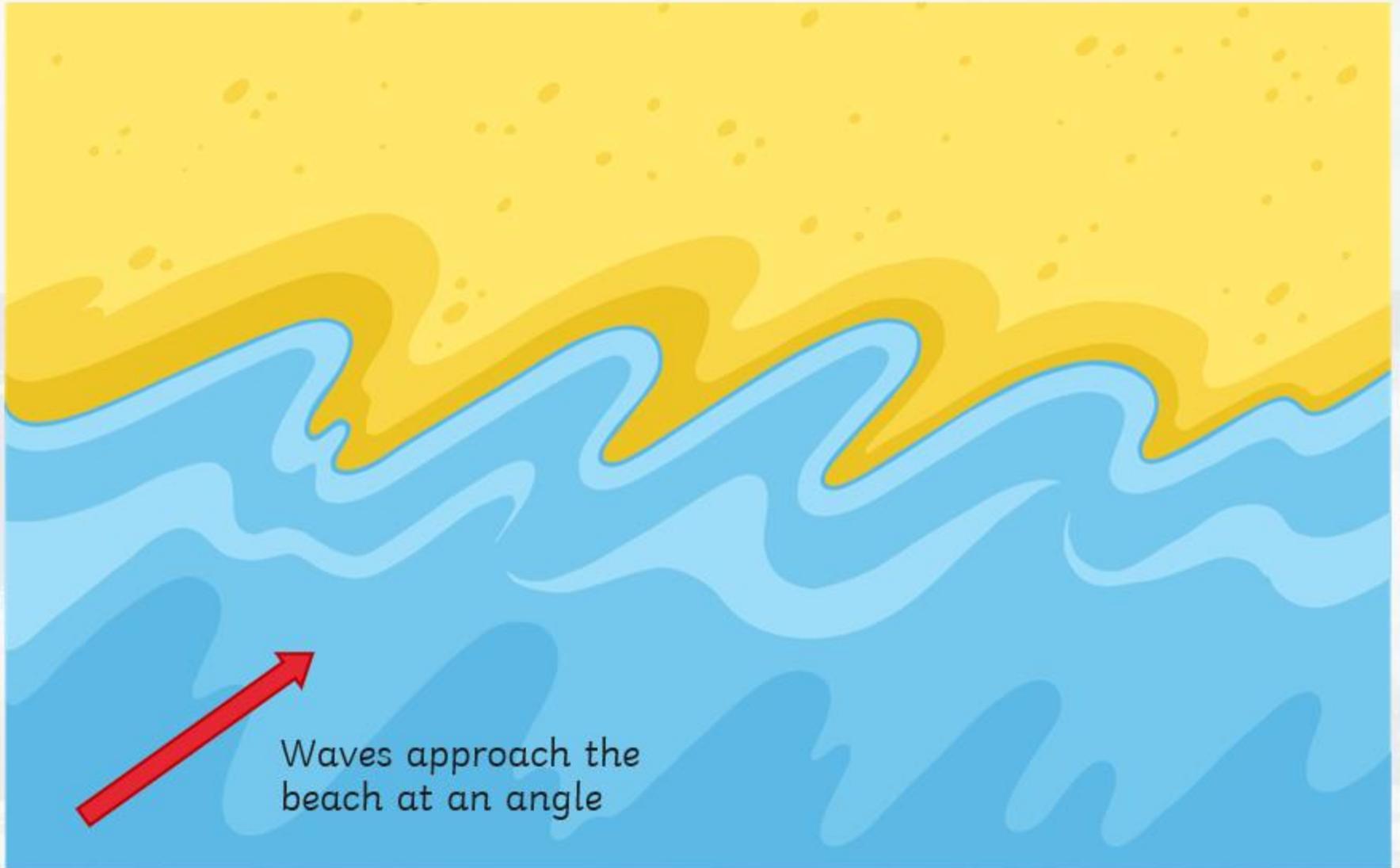
These help to build a beach up by depositing sediment like sand. They **construct** the coast.

Destructive Waves

These remove sediment from cliffs and beaches. They are **destructive**.

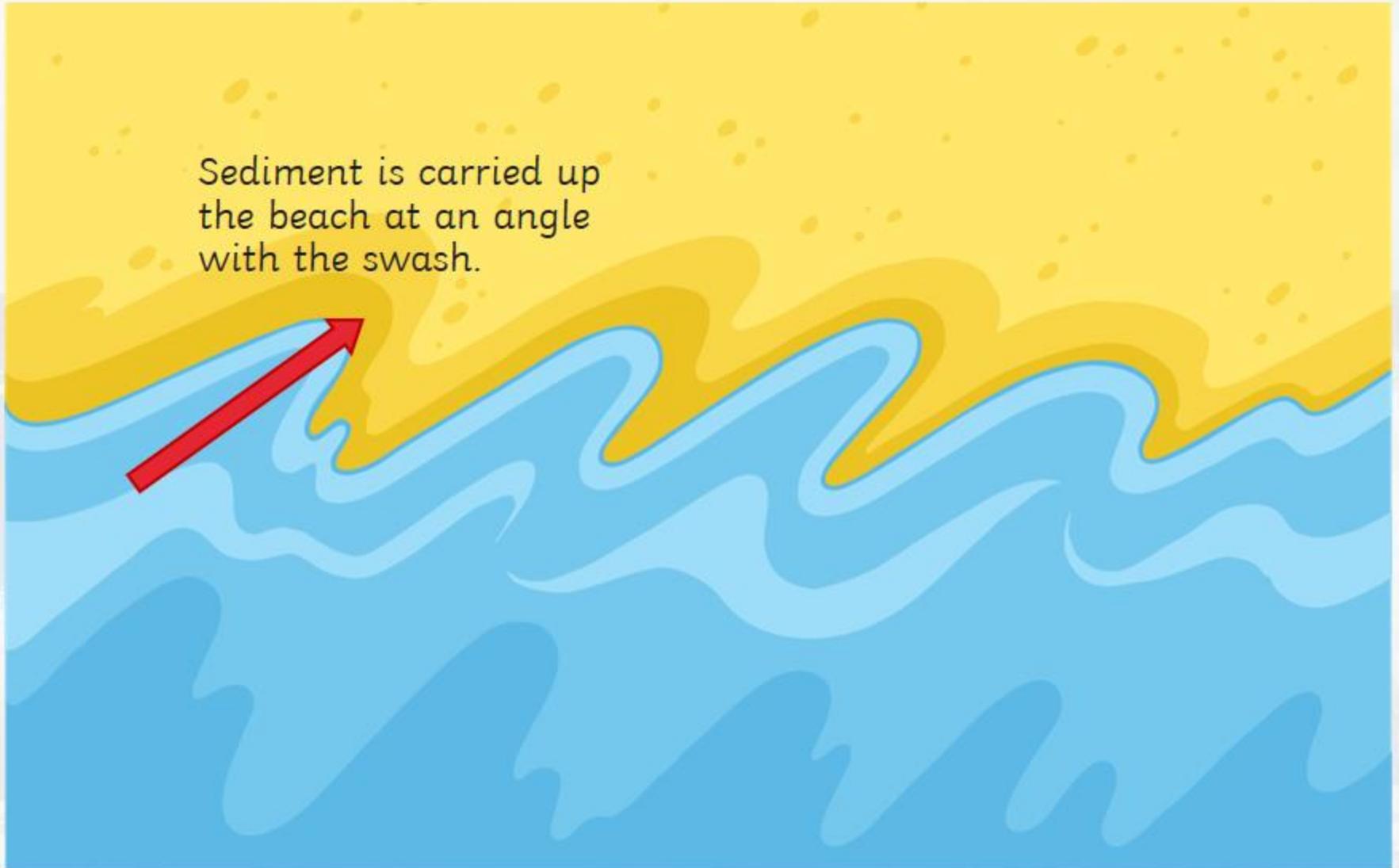


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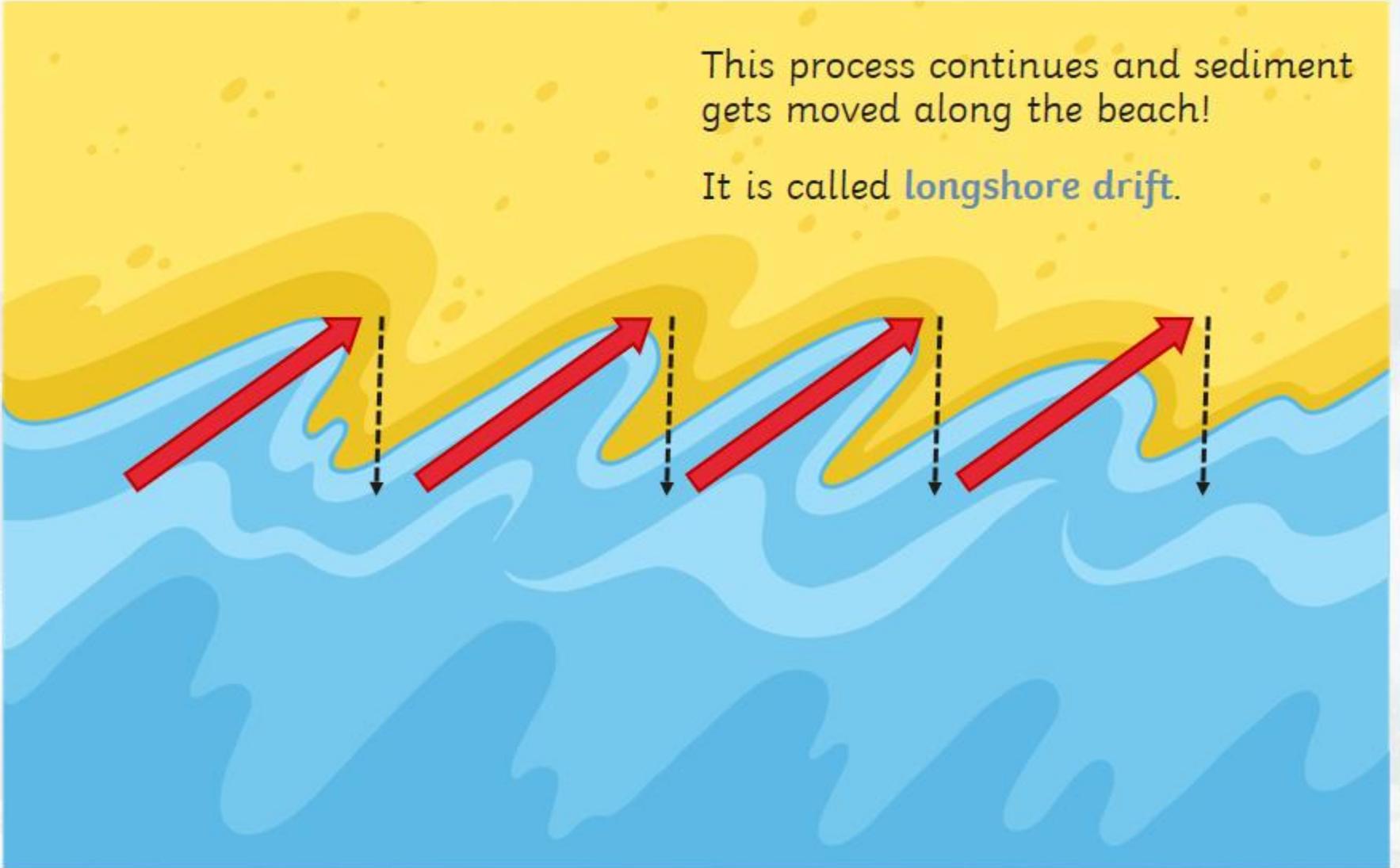


The sediment travels with the backwash down the beach in a straight line due to gravity.

What is Longshore Drift?

This process continues and sediment gets moved along the beach!

It is called **longshore drift**.



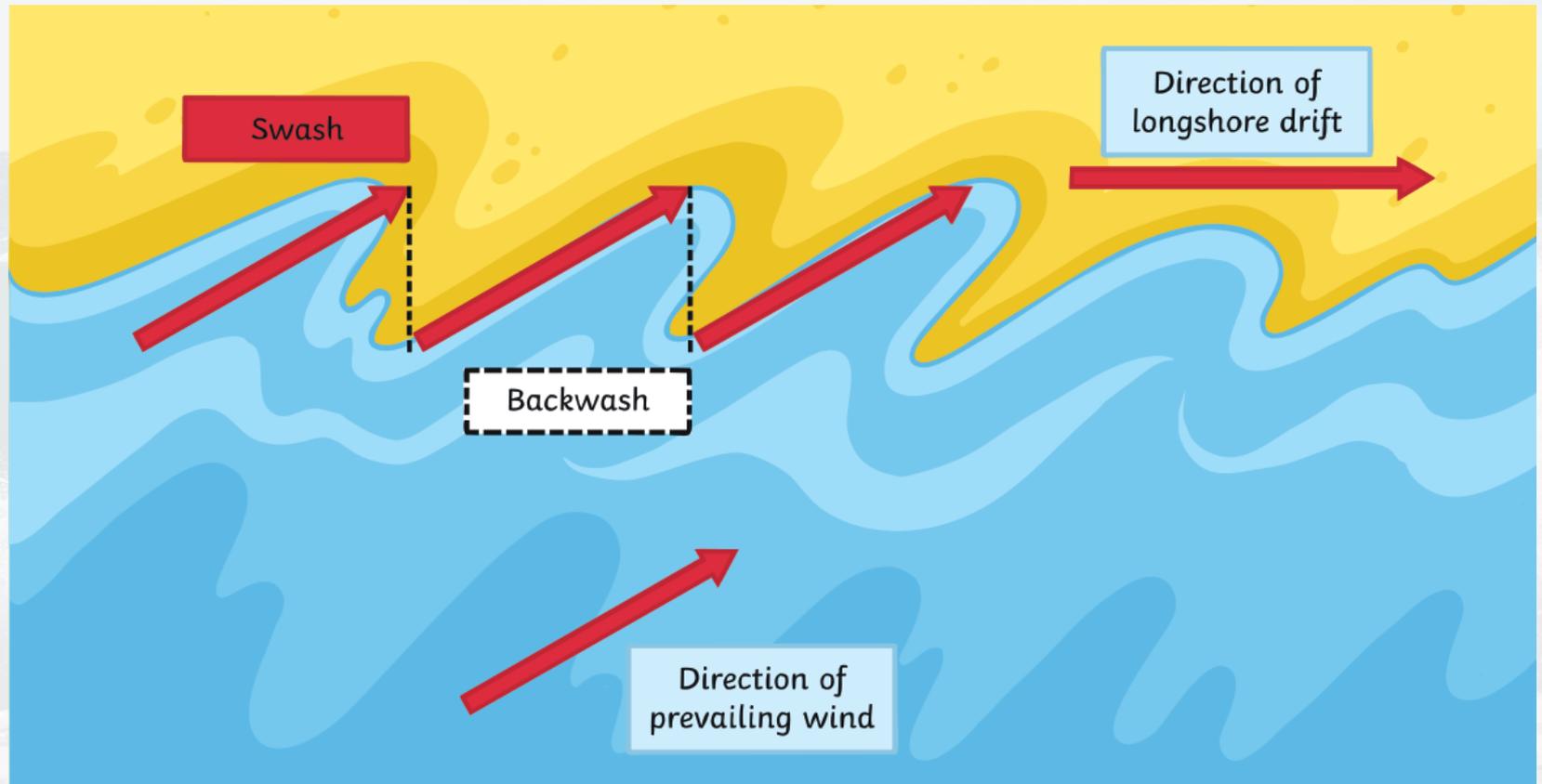
Longshore Drift

Groynes are sometimes placed on a beach to stop this from happening because having sand on the beach is a key method of stopping coastal erosion.



Longshore Drift

On the next page, complete the longshore drift diagram to show how the process moves sediment.



Longshore Drift



Complete the diagram to show how the process of longshore drift works. Use the following keywords to help you:

swash

backwash

prevailing wind

angle

longshore drift



Welcome to today's edition of...

KNOW YOUR WAVE!

And here's your host...

Stevie Starfish!



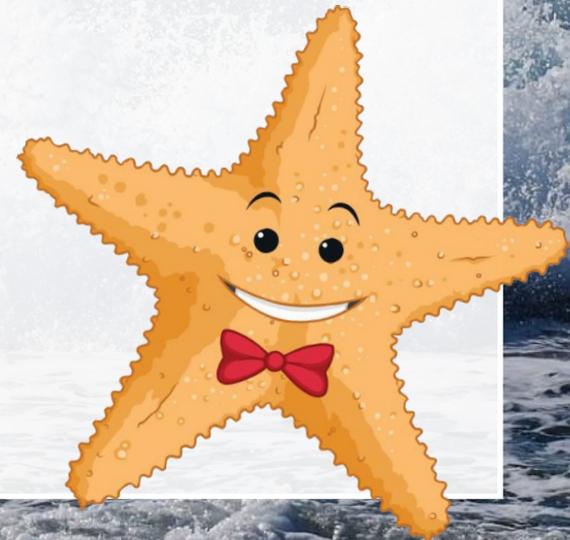
KNOW YOUR WAVE!



OK folks, let's get straight down to business! I'm going to show you a word or phrase, and you need to tell me whether it's linked to **Constructive** or **Destructive** waves. Got that?

KNOW YOUR WAVE!

calm weather



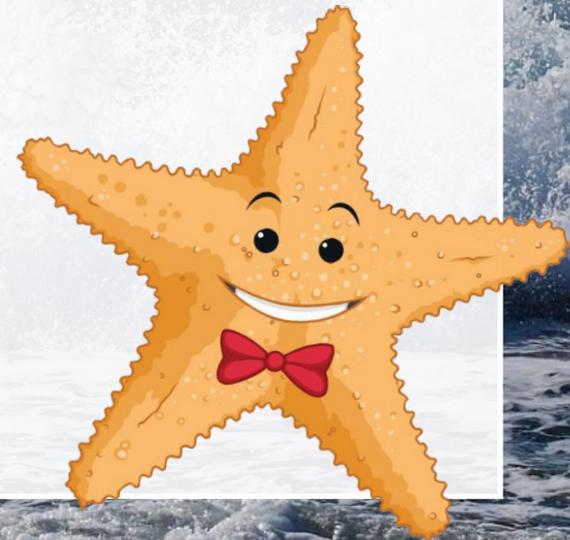
KNOW YOUR WAVE!

erosion



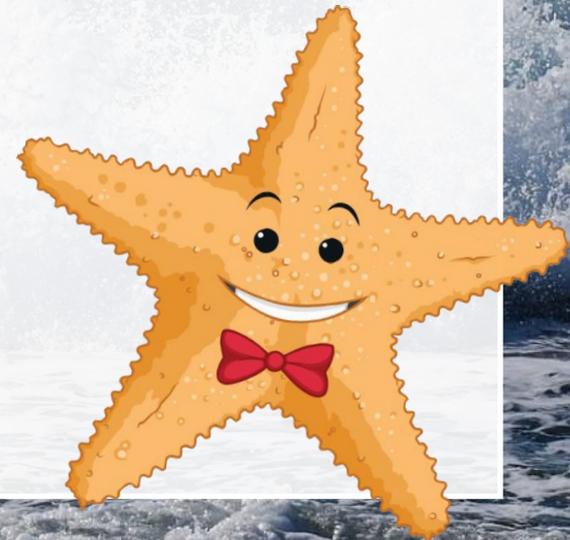
KNOW YOUR WAVE!

strong swash



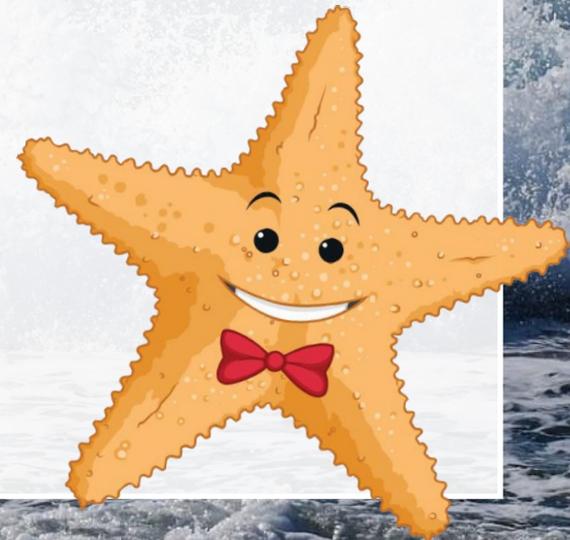
KNOW YOUR WAVE!

sediment deposited



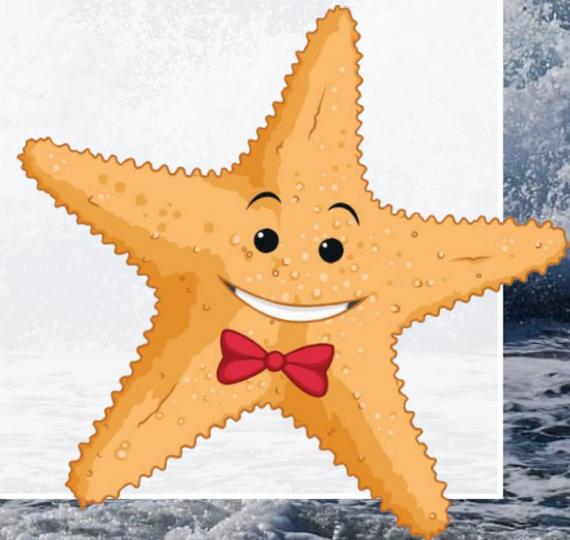
KNOW YOUR WAVE!

stormy weather



KNOW YOUR WAVE!

energy absorbed by beach



Answers!

Calm weather – constructive

Erosion – destructive

Strong swash – destructive

Sediment deposited – constructive

Stormy weather – destructive

Energy absorbed by beach – constructive



twinkl