

Educational Resource: Invent a new wave tank design

Wave tank models are used to demonstrate how different types of coastal defences protect coasts from erosion and flooding. Watch our wave tank model in action by clicking [here](#).



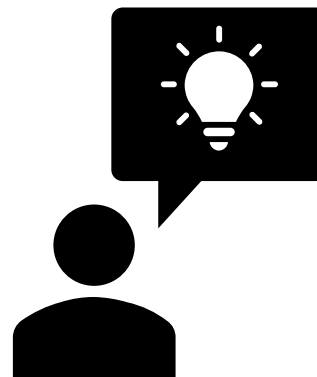
Invent a new wave tank model and sketch it on the next page.

Think about all the ideas given on this page & annotate your design.

Be creative and have fun!



What material would
your tank be made of?
What are the properties
of this material?



How would your
wave tank work?

How big would the
model be?
(include height, length,
width dimensions)

What mechanism
would you use to
makes waves?
How would this be
powered?

Invent and draw some new coastal
defences to add to your model.
How would these help to protect coasts?
What would they look like?
What material would they be made
from?



Sketch your design and add notes to bring your invention to life!

Ideas for further investigation - you could build a model of your design, for example using construction bricks or mechanical model building kits. Try using craft materials to create a model of a coastline showing different types of sea defences.