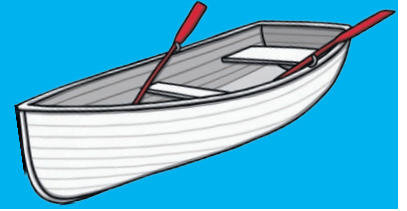


# Boat Size and Strength Testing

## STEM Activity



### Method

1. Tell the children that the boy and the penguin need to get to the South Pole.
2. Can they help the boy and the penguin by testing the boats for size and strength, to find the best one for their journey?
3. With the children, talk about size of boat they might need. Lead them to the idea that the boat needs to fit both the boy and the penguin in, but also not be too big.
4. Next, with the children, talk about other properties the boat might need. Talk with the children about how it needs to keep afloat with the boy and the penguin in, as well as being strong enough to hold its shape.
5. Give the children time to experiment with the different trays in the water trough. Allow them to test whether the boy and the penguin fit into the boat and if it stays afloat with them in.
6. Once the children have made their decision about which would be the best boat for the boy and the penguin to sail to the South Pole, ask them why they came to that decision.

### You will need:

Selection of plastic and cardboard tubs and trays

Boy toy or model

Penguin toy or model

Cocktail umbrellas

Water trough

