

Weather Engineering Lab:

Build a sail for your raft

Sailing is the craft of controlling a boat that uses the force of the wind as a source of movement.

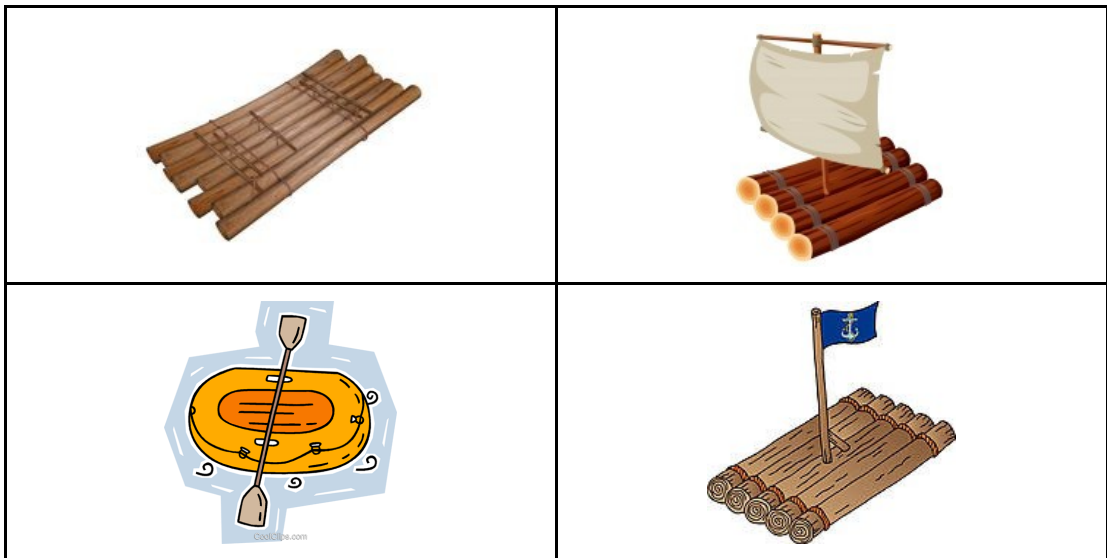
Sailing boats were very important to move cargo and people. Starting at the end of the 19th century they were gradually replaced by the boats that used steam to generate motion.

Today, sailing is a hobby some people have.



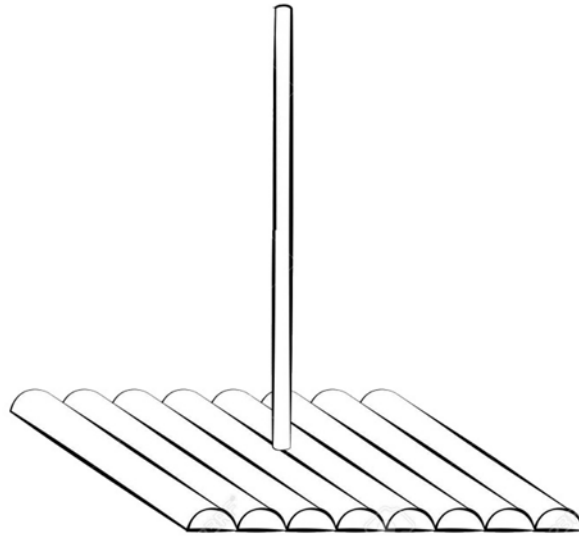
Main Goal

The main goal of the activity is to explore the use of the wind and how it affects the speed of a raft/boat when you design and use a proper sail.



1. Observe the pictures below and see if there are any differences. Talk to the classroom about your findings!
2. Now choose the picture with the raft that can move with the power of wind:

You have a wooden raft without a sail. Draw a sail so that the raft can move!



Well Done! Now that you know how to make a sail for a raft, create your own sail with the given materials, in order to move the raft! Let 's see whose raft can go the furthest!



Available materials:

- Paper
- Plastic plates
- Aluminium foil
- Fabric
- Paper tape
- Glue
- Scissors
- Sheets of plastic/plastic bag
- Straws

Learn more about sailing and the power of the wind, by watching the following video:

https://www.youtube.com/watch?v=M4CQ4T_K8Hw

