

Build a Raft for the Billy Goats

STEM Challenge



Method

1. Briefly review the story of the 'The Three Billy Goats Gruff'. Ask the children to suggest other ways that the goats could cross over the river, without using the troll's bridge.
2. Tell the children that we are going to make some rafts for the goats to use!
3. Look at the range of resources and discuss the children's ideas about what to use.
4. Explore what happens when the different materials are placed into the water. Encourage the children to talk about what happens to the different materials and which materials might be best to use to make their raft.
5. Encourage the children to explore ways of joining and using the materials to build a raft and then test it out in the water tray. Support the children to make adjustments or alterations. They could also test to see if their rafts are able to hold all three goats at once!

You will need:

'The Three Billy Goats Gruff' storybook

Tray of water

Small world goat toys (3 different sizes if possible)

Sticky tack

Glue

Sticky tape

Scissors

Plastic pots or containers

Wooden lolly sticks

Corks

Cardboard

Sponges

Paper

