

Science ideas to try at home

March 2020

Marshmallow challenge



What is the tallest structure you can make using spaghetti and marshmallows?

You will need:

Spaghetti
Marshmallows
A measuring tape

Related jobs:

Architect
Civil Engineer

Water filter challenge



How can we clean dirty water?

You will need:

A clear plastic cup
Large and small stones
Sand
Cotton wool
Muddy water
A plastic bottle
A timer
Scissors
Timer

Related jobs:

Water engineer
Environmental scientist

How to do it:

1. Remove the cap and cut off the bottom of the bottle to create a funnel shape. Place the narrow end into the cup.
2. Line the bottom of the upturned bottle with cotton wool to act as a filter.
3. Fill the bottle with layers of natural materials such as stone and sand.
4. Pour in the muddy water timing how long it takes for it to filter through into the plastic cup.
5. Have a look at your clean water!

Remember not to drink the water!