



## Communicating vessels

### HOW TO CREATE YOUR ELEMENTS

#### STORAGE

For this activity, you must have plenty of different materials in your box. We are recommending you to use a shoe box (or a box that big) to store it.

#### CRAFT THE ELEMENTS

##### A. Storytelling

Print out the annexe Communicating vessels\_Storytelling element in A4 or A3 according to your preference and possibility.

##### B. Build your river model – Sequence 1

1. Gather the material. You will need: 2 Aluminum pans( for the river and the ocean), sand or pebbles (or Lego®, blocks. If you use other materials, make sure they are not able to dissolve in water or float on the water surface), Water, Bottle with a narrow opening, Aluminum foil, Small bowl for water collection, Scissors, Tape, nail, book or box, paper towels, blue food dye (Optionally, you can add some blue food dye to the water so you can see it better)
2. Fold the aluminium foil so that it resembles a riverbed and place it in the pan. Secure it to the pan with tape.



Co-funded by  
the European Union

# SCIENCES



3. Flatten the bottom of the aluminium riverbed with your fingers.
4. Create the landscape around your river by using sand, pebbles or blocks



5. Pour the water into your aluminium foil river.
6. Set up another aluminium water collection container at the end of the aluminium pan. Then, use a nail to poke a hole into the aluminium pan where your river ends.



7. Incline the aluminium pan by placing one end on a book or box and drain the river. Then, pour more water into the top of the river using a bottle with a narrow opening.



## C. Sequence 2

1. Gather the material. You will need 2 plastic bottles, a plastic tube, and water.
2. Cut a hole in each bottle cap the same size as the plastic pipe.
3. Place water in one or both bottles.
4. Use modelling clay to hold the plastic tubes in the caps.
5. Put the caps on the bottles, and you're ready to experiment!

→ Watch this video, it shows the experiment with different material:

[https://youtu.be/\\_8jUDd\\_ZpBk?feature=shared](https://youtu.be/_8jUDd_ZpBk?feature=shared)

## ALTERNATIVES

Make a model of a town with the water tower and the houses. (Baxter pipes, with small taps to represent the different water outlets and inlets.

## Resources

SimpleSteps. (2017). Communicating vessels | Science Experiments for Kids [Video].

YouTube. <https://www.youtube.com/watch?v=9fyl7pFHOAg>

