

Water Challenge

Activity 4.1: **Create**

Your prototype plan

Look at your wai network plan. Have you considered:

- The materials you'll use?
- · Gravity and flow?
- · How you'll solve your challenge scenario?
- How your network will help protect the mauri of wai?

Take the time to make any final changes to your plan before you start.

You'll need:

- Nozzle
- Nozzle connector
- 1x clear joiner pipe (long)
- 2 x clear joiner pipes (short)
- Large elbow connector

- Tap
- "Hydrate your hapori" set
- Your reservoir from the clean activity
- Resources to support wai network stability (boxes, tape, bulldog clips)

Create a pipe prototype to connect the journey of wai from collection, to your hapori.

Watch the 'create' video, then bring together your wai network plan, and knowledge on gravity and flow to construct your prototype.

Create your prototype

Step 1

Twist the nozzle onto your reservoir.

Step 2

Attach the nozzle connector onto your nozzle.

Step 3

Attach the long clear joiner pipe to the nozzle connector.

Step 6

Attach the tap to the short clear joiner pipe.

Step 5

Attach a short clear joiner pipe to the large elbow connector.

Step 4

Attach the large elbow connector to the long clear joiner pipe.

Step 7

Attach the other short clear joiner pipe to the other side of the tap.

Step8

Attach an elbow connector from your "hydrate your hapori" set to the clear joiner pipe.

Step9

Attach a short clear pipe from your "hydrate your hapori" set to the elbow connector, followed by a t-bar connector.

Step 10

Bring your wai network plan to life with your choice of pipes and connectors! Make sure you use resources to stabilise it so it can stand on its own.

Karawhiua koutou!