

Water Challenge

Activity 5.2: **Join the journey**

Connect all four stages of the journey of wai and put your prototype to the test. Does your network have what it takes to solve your challenge scenario? Join the collect, clean, connect and care stages of Step 1 your wai network journey to test the waters. Check the filter layers in your water treatment plant and refresh them if required. You'll need: • Your water treatment plant Step 2 · Your improved wai network • 500ml wai Place your water • Lemon juice treatment plant on top of your water reservoir. · Natural debris Step 3 (dirt, bark, grass, leaves) · Resources to support Turn off the tap and wai network stability check all connections. (boxes, tape, bulldog clips) • 2 x containers that can hold 500ml of wai Step 4 Measuring scoops Measuring jug Add some natural debris and 1 teaspoon of lemon juice into • pH strips 500ml of wai to make it wai paru. • Timer Torch (optional) Step 5 Test the wai for pH and turbidity. Write your results in the clean section of the test tracker. Step 6 Pour the wai paru into your treatment plant, letting it all flow through into your water reservoir. Step8 Step 7 Once the wai has finished its

Open the tap and

watch the wai flow!

journey through your network,

test its pH and turbidity again and record the results in the test tracker.

Test tracker

Journey stage			Result
Collect	How much wai did you add to your network?		500ml
Clean	Before wai network journey	рН	
		Turbidity	
	After wai network journey	рН	
		Turbidity	
	What observations can you make on the mauri of the wai?		
Connect	- Hapori connection point 1	Wai flow time (s)	
		Wai flow rate (ml/s)	
	Hapori connection point 2	Wai flow time (s)	
		Wai flow rate (ml/s)	
Care	Hapori connection point 1	Wai supply (% and ml)	
	Hapori connection point 2	Wai supply (% and ml)	
	Did your network protect the mauri of wai? How?		

Analysis

What did you learn from your test?	Are there any improvements you could make to your prototype before the final challenge?