

Aquaponics in a Jar

An activity of "New farming methods use traditional wisdom".

Read the article, "New farming methods use traditional wisdom" (page 21, *What's Up* August 2022).

1a) According to the article, what are some benefits of permaculture?

b) How might we practice permaculture in Singapore given our space constraints?

2a) Watch the following video:

What is Aquaponics and How Does it Work? ➤ <https://youtu.be/yhcAOE2JOVs>
Agriculture Academy (6 October 2022).

b) Fill in the blanks to describe the basic principle behind aquaponics:

Ammonia in the water from fish _____ is converted to nitrate, which is a nutrient for plants. The plants _____ the water to keep the fish healthy.

3. Now that you have seen how it can be done large-scale, let's see how you can replicate it small-scale for your home or classroom!

a) Look for this infographic → at our website for students
➤ <https://digital.whatsup.sg>.

b) Note all the details given for every step.

c) Make your own "Aquaponics in a Jar"! You may need an adult's help for some steps. Have fun!

