

**Maker**  
{Futures}



# Watering System Challenge

# What you need:

- **Empty plastic bottle**
- **Ribbed flexible pipe, or piece of old hosepipe**
- **Cork or Bottle stopper**
- **String**
- **Scissors**
- **Bradawl**

# Maker{Challenge}

Age: 10+ yrs  
Risk: low

# Watering Pipe System

## {Challenge}

Make a pipe system to water as many plants as possible in your garden in just one go!

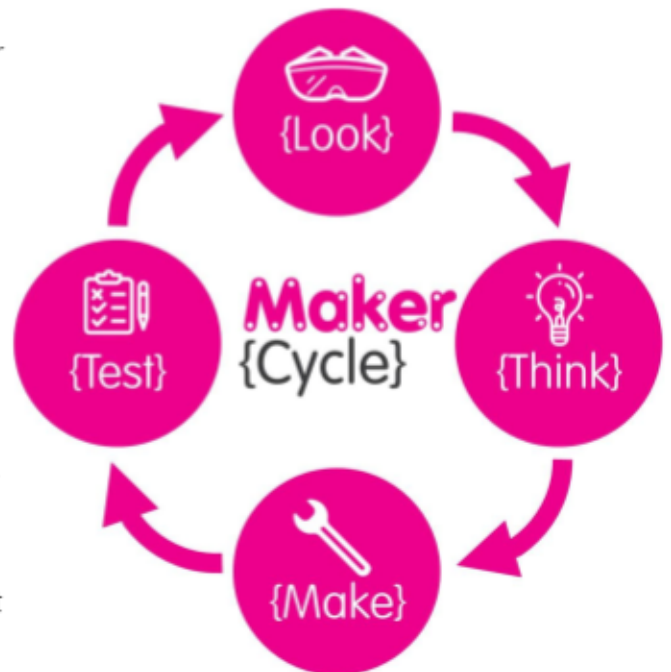
## What you need

- Empty plastic bottle
- Ribbed flexible pipe, or piece of old hosepipe
- Cork or Bottle stopper
- String
- Scissors
- Bradawl



## Use the Maker{Cycle} to create like a Maker:

- **Look** at the plants and flowers around your garden. Try and imagine the shortest path that could reach them all.
- **Think** how water flows and how you can transport it with the least amount of effort.
- **Make** a simple irrigation system. Create a funnel out of the bottle, connect it to your pipe at one end and fix to a wall or fence. Lay your pipe around the shortest path between your plants. Using the bradawl, carefully punch a hole near each plant. Use the cork to block the end of your pipe.
- Pour some water through your system to **test** it. Does water reach every plant? What happens if you remove the cork?



## {Top tip}

Leave a long drop after the funnel so gravity can have more effect on the water - turning a trickle into a torrent!