

Maker
{Futures}



Water Xylophone Challenge

What you need:

- **Glass jars/bottles/cups**
- **Water**
- **A wooden spoon**
- **Food Colouring (optional)**

Maker{Challenge}

Age: 3 yrs+
Risk: low

Water Xylophone

{Challenge}

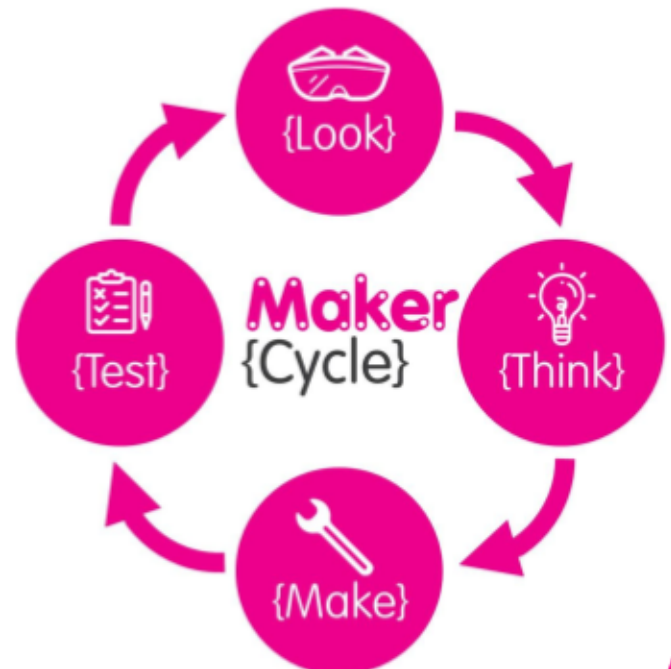
Can you make a xylophone using just glass and water?

What you need

- Glass jars/bottles/cups
- Water
- A wooden spoon
- Food Colouring (optional)

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

- **Look** around the house and collect as many glass jars/ bottles/ cups as possible.
- **Make** your xylophone by filling the glasses up with varying volumes of water. You can add food colouring at this stage to make it more colourful!
- **Test** your xylophone by lightly hitting the wooden spoon against the glasses, notice how they make different sounds
- What happens when you fill the glass with more water? What happens when you hit the glass higher or lower?
- Can you make a tune on your water xylophone?



{How it works}

Sound is produced by vibrations. When you tap the glass it vibrates creating a sound. The water slows down the vibrations and changes the pitch of the sound.