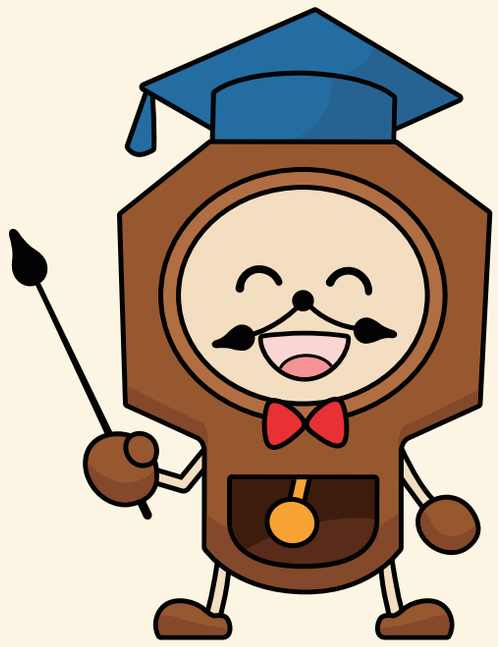
How to Make a Water Clock

Measure time with a cup tower clock!



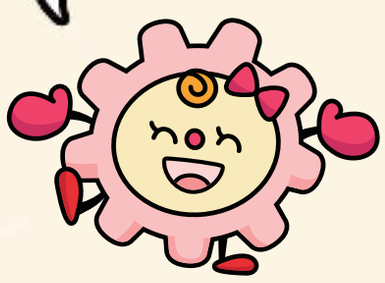
Water flows in a steady way.



Let's make a simple water clock and try an experiment.

Ask an adult to help you.

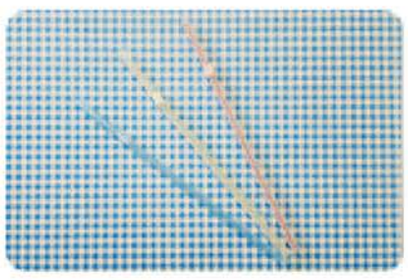




Things You Need



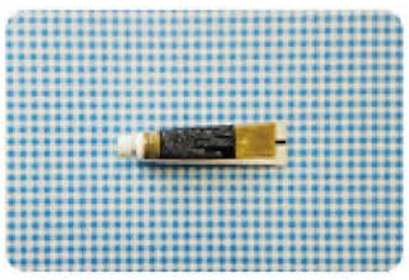
10 plastic cups



3 Straws (about 6mm wide)



Cotton wool or tissue



Glue



Scissors



Awl or craft knife



Ruler



Marker pen



Clock



Water



Towel

How to Make a Water Clock

Measure time with a cup tower clock!

Step 1 | Step 2 | Step 3 | Complete | Step 4 | Step 5

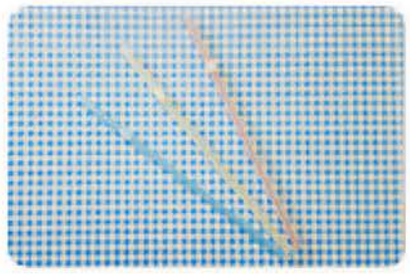


Let's get started !

Tools



3 Plastic cups



3 Straws
(about 6mm wide)



Awl or craft knife

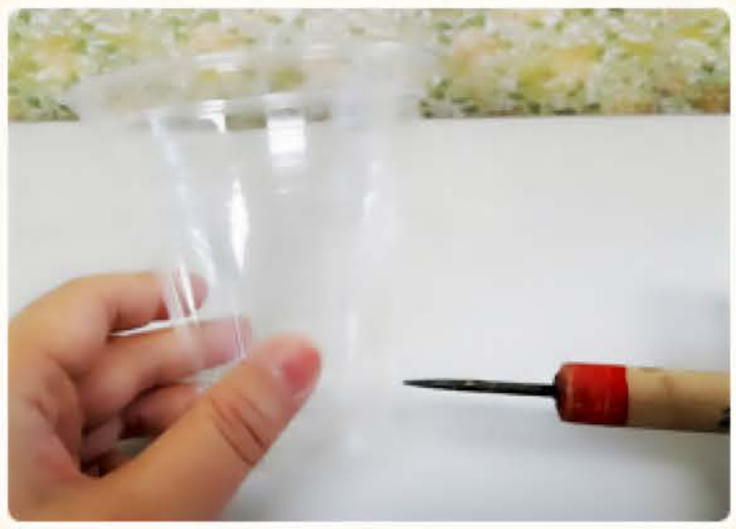


Ruler

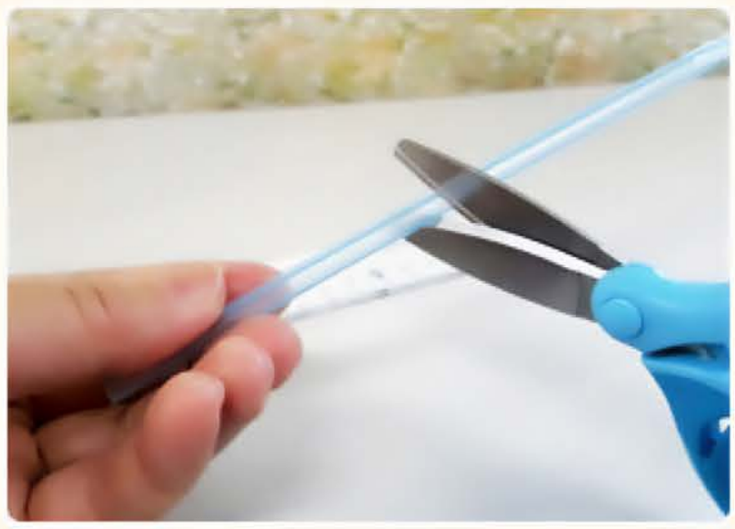


Scissors

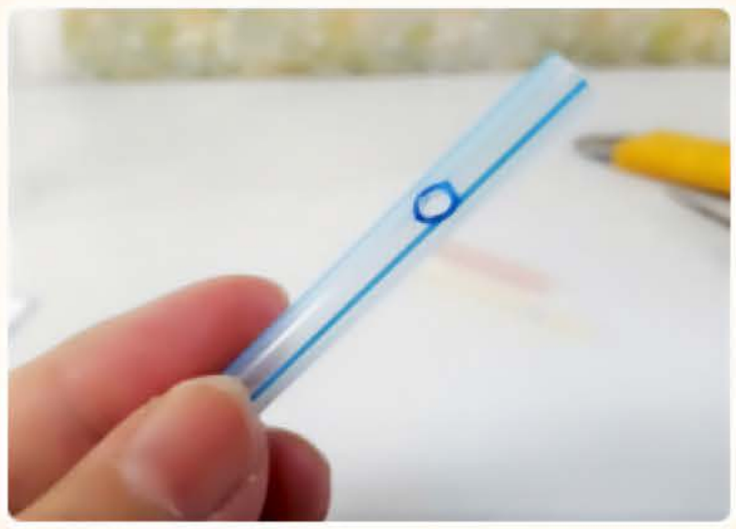
Step 1 Parts Making



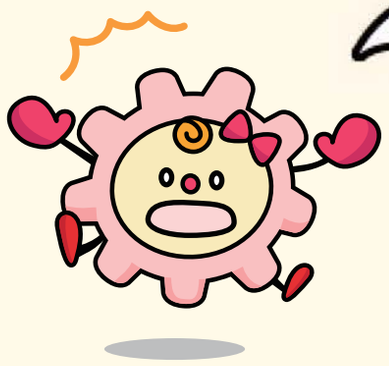
Make a hole about 1 cm above the bottom of the cup.



Cut a straw to about 6 cm long.



Make a small hole (about 2 mm) about 1.5 cm from one end of the straw.

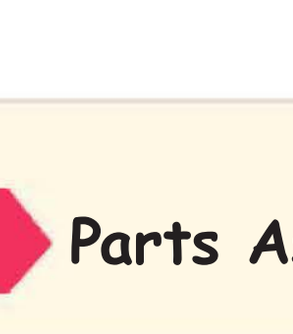


Be careful when using sharp tools!

How to Make a Water Clock

Measure time with a cup tower clock!

Step 1 | **Step 2** | Step 3 | Complete | Step 4 | Step 5

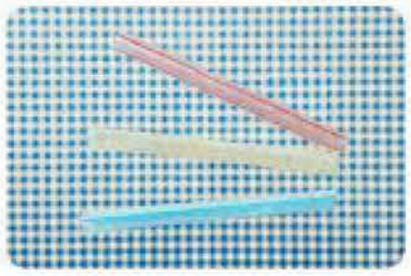


First hurdle - let's do this !

Tools



3 Plastic cups with holes



3 Straws with holes



Glue



Cotton wool or tissue

Step 2 Parts Assembly



Put the straw into the hole. Make sure the small straw hole faces down. Glue it tightly so water will not leak.



When the straw is secure, plug the end with wet cotton wool or tissue.



Make three of these cups.



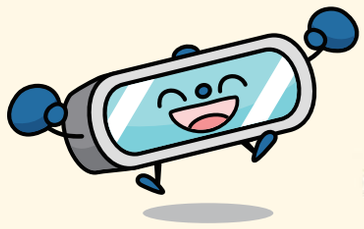




How to Make a Water Clock

Measure time with a cup tower clock!

Step 1 | Step 2 | Step 3 | Complete | Step 4 | Step 5



Almost finished !

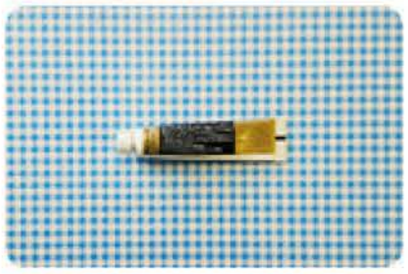
Tools



3 Cups
with straws



7 Plastic cups



Glue

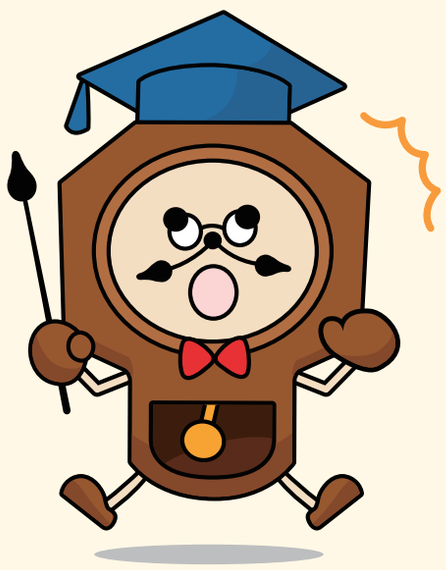
Step 3 Build a tower by stacking the cups.



Glue the cups together
as shown.



Stack them one by one to
make a tower.



Let the glue
dry completely.

Be careful not to get glue
on your hands or clothing !



How to Make a Water Clock

Measure time with a cup tower clock!

Step 1 | Step 2 | Step 3 | Complete | Step 4 | Step 5

When the tower is complete,
your water clock is ready !

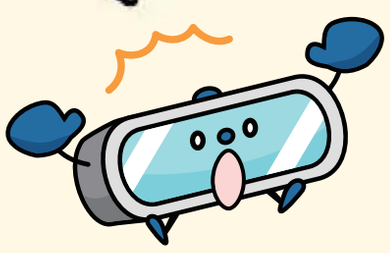
Finished !



What a wonderful clock it is !



Looking forward to the next step !





Let's move on to the experiment.

How to Make a Water Clock

Measure time with a cup tower clock!

Experiment

Tools


Cup tower


Water


Marker pen


Towel


Clock

Step 4 Pour water into the top cup. Watch the water flow.

Use a clock to measure the time.
Mark the water level in the bottom cup.











How to Make a Water Clock

Measure time with a cup tower clock!

Experiment

Step 5 Try the experiment several times.

Record whether the same amount of time passes each time.
Now you can measure time with your water clock!















Show it to your friend when you are done !

Clean up any spilled water with a towel.

Don't forget to tidy up, too !