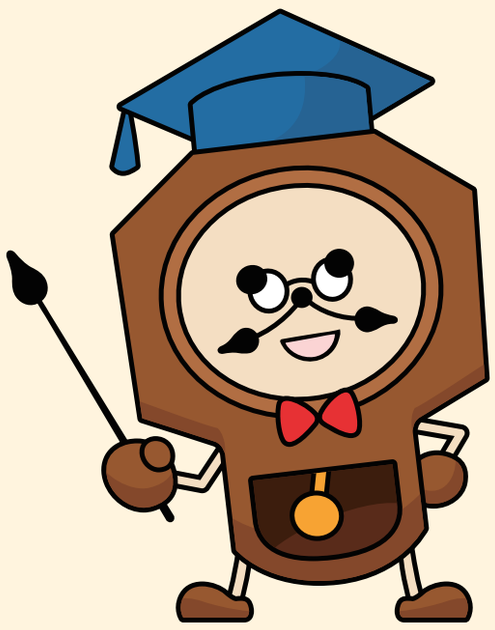
How to Make an Hourglass

Let's make a 3-minute colorful hourglass!



Mix colorful sand and make your very own hourglass.



You can buy colored sand (0.5 mm grain size) online.



Ask an adult to help you use scissors and a craft knife.



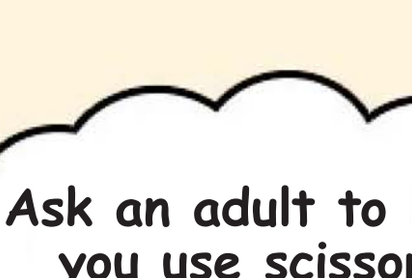
Things You Need



Colored sand (about 800g total)



2 plastic bottles (500mL, bottle opening : 26mm)



2 pieces of thick paper (about 0.5mm thick)

Clear tape

Duct tape



A4 paper



Colored vinyl tape



Clock or timer



Marker pen



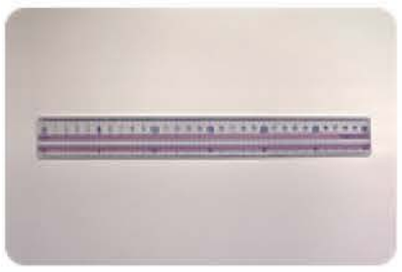
Hole punch



Compasses



Scissors



Ruler



Glue

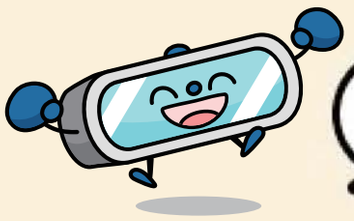


Newspaper

How to Make an Hourglass

Let's make a 3-minute colorful hourglass!

Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Complete



Let's get started !

Tools



2 plastic bottles



Marker pen

Step 1 Draw pictures on the bottles



Draw your favorite pictures on the two bottles.



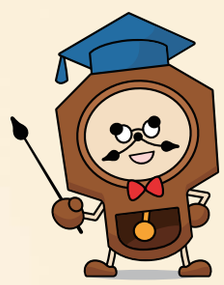
Let the ink dry well.



Try to use firm plastic bottles !



The bottle opening is 26mm in diameter.



Draw something cool on the bottles !

How to Make an Hourglass

Let's make a 3-minute colorful hourglass!

Step 1 | **Step 2** | Step 3 | Step 4 | Step 5 | Step 6 | Complete



What colors of sand will you use?

Tools



Colored sand (about 800g total)



Newspaper



A4 paper

Step 2 Put Sands in the bottle.



Put about 800g of colored sand into one bottle.



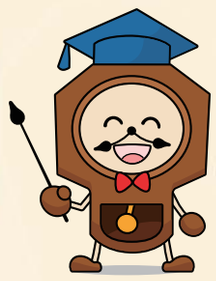
Using different colors makes it look beautiful.



Different colors of sand look cool !



A paper funnel makes it easier !



Be careful not to spill the sand !

How to Make an Hourglass

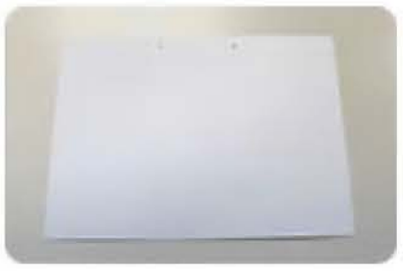
Let's make a 3-minute colorful hourglass!

Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Complete



Ask an adult for help with the hard parts !

Tools



2 pieces of thick paper



Hole punch



Compasses

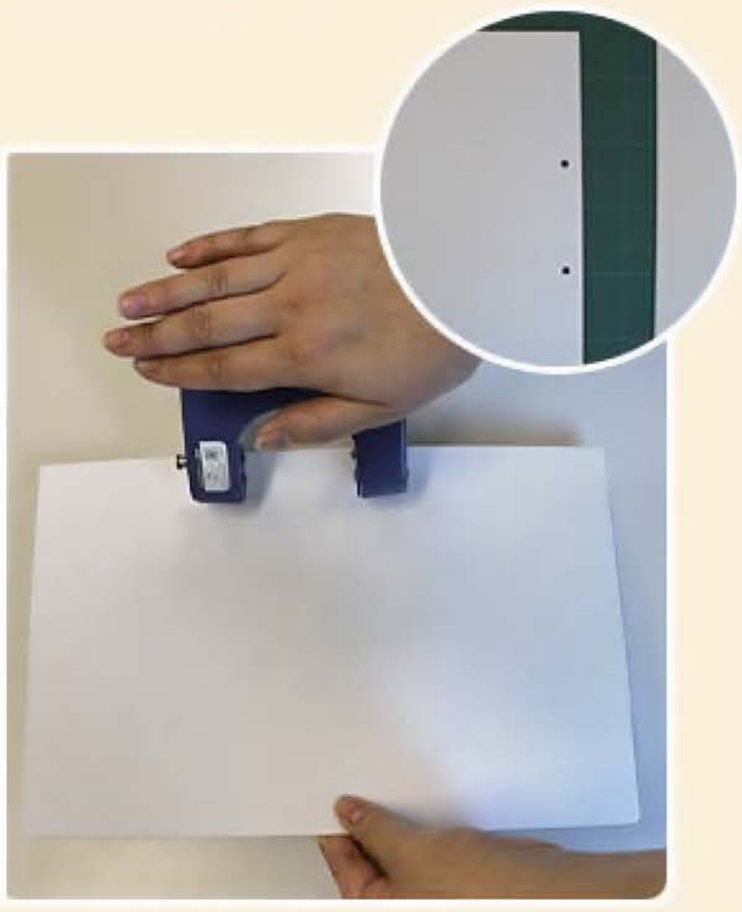


Scissors

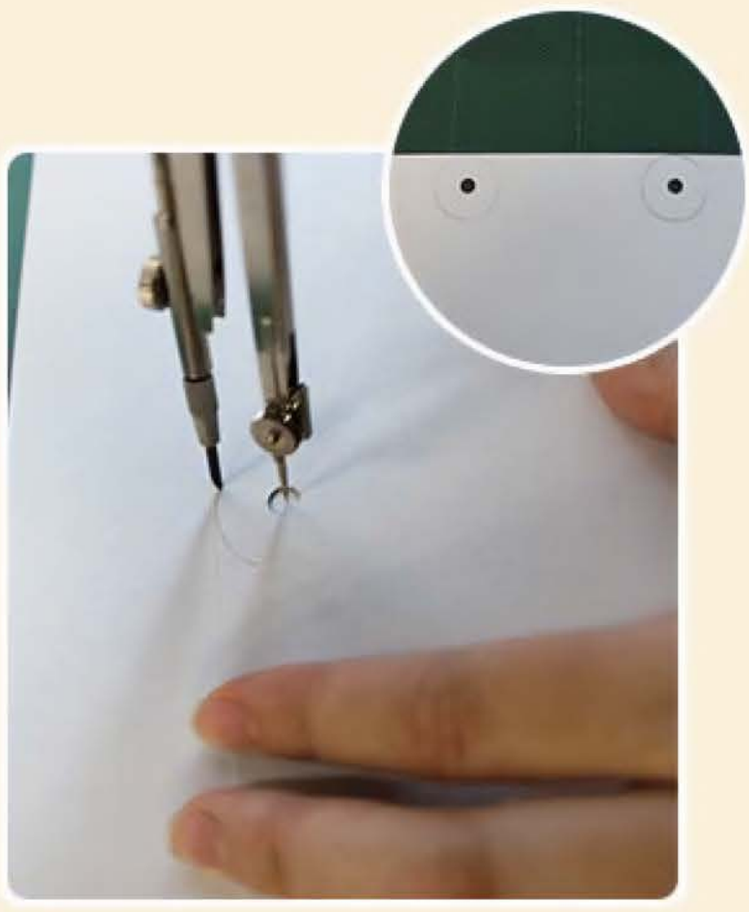


Ruler

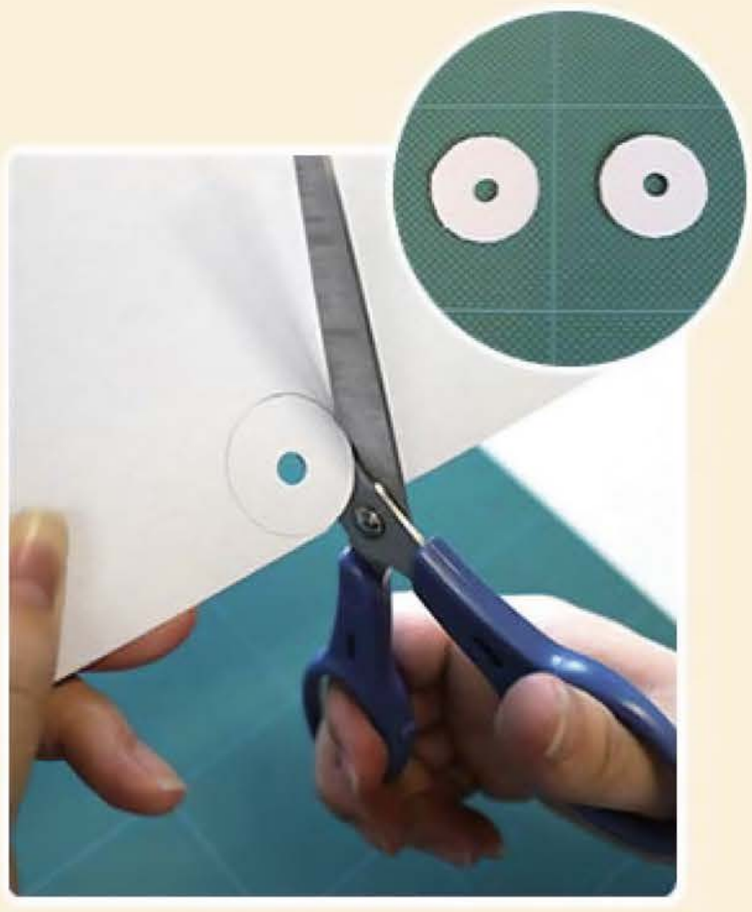
Step 3 Cut a hole for the sand.



Punch two holes in the thick paper.



Draw circles with a diameter of 26 mm around the holes.



Cut out the circles with scissors.



Use a the hole punch to make a hole



Use thick card board to keep the compass steady !

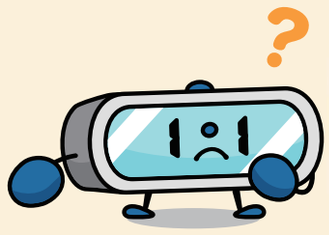


Check the hole is in the center !

How to Make an Hourglass

Let's make a 3-minute colorful hourglass!

Step 1 | Step 2 | Step 3 | **Step 4** | Step 5 | Step 6 | Complete



Use glue carefully !

Tools



Glue



Duct tape

Step 4 Attach the sand hole piece to the bottle.



Put glue around the bottle opening.



Attach the paper circle with the hole.



When the glue is dry, connect the bottle openings together and hold them with duct tape.



Be careful not to get glue on your hands



Be careful not to spill the sand !



No gaps between the bottles. That's the key !

How to Make an Hourglass

Let's make a 3-minute colorful hourglass!

Step 1 | Step 2 | Step 3 | Step 4 | **Step 5** | Step 6 | Complete



Let's make it exactly 3 minutes!

Tools



Clock or timer

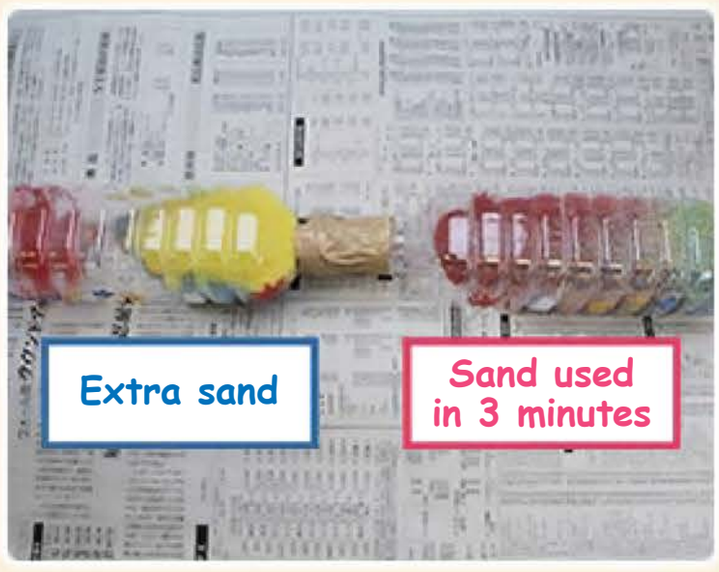


Newspaper

Step 5 Measure 3 minutes and adjust the sand amount.



Turn the connected bottles upside down. Measure 3 minutes.



When 3 minutes are up, place the bottles on their side to stop the sand.



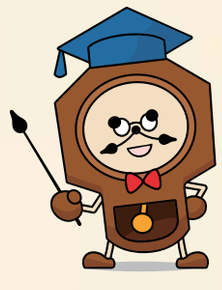
Remove the duct tape and pour out the extra sand.



Just 3 minutes ! It's important.



Toss the extra one. Don't mess it up !



Be careful not to spill the sand !

How to Make an Hourglass

Let's make a 3-minute colorful hourglass!

Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | **Step 6** | Complete



Tools


Clear tape


Duct tape


Colored vinyl tape

Step 6 Connect the 2 bottles firmly.


Use clear tape to keep the bottle openings lined up.


Wrap duct tape around them tightly.


Finally, cover the duct tape with colored vinyl tape.







How to Make an Hourglass

Let's make a 3-minute colorful hourglass!

Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Complete

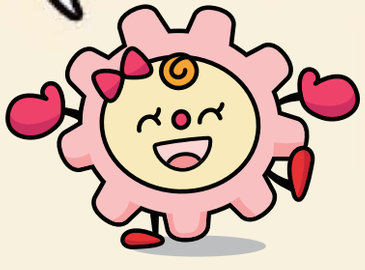
Let the sand flow and check that it takes 3 minutes.

Your colorful hourglass is finished !

Let's try making a 5 minutes timer, too !



The colors look so cool ! when they mix !





Good Job !

