

# Origami Water Lily Kit

## Assembly Instructions

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# Assembly Instructions

There are five stages to assembling the Water Lily, and it will take about half an hour. You will need the 8 sheets from the kit - six A4 and two A3 - and a flat surface to work on.

The assembly process uses the techniques of Origami - the art of paper folding. There are mountain folds, valley folds, reverse folds and some locking tabs. Follow these step-by-step instructions to create your own fabulous Water Lily!

[Click here to see the step-by step instructions on YouTube](#)

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## 2. Snapping out the pieces

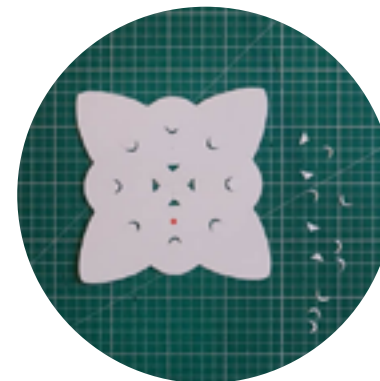
### Part 1

Carefully remove part 1 from the A4 sheet by snapping the small paper bridges that hold it in place.



### Part 2

Carefully remove part 2.



Then remove the four small triangles in the centre and the thumbnail-shaped tips of the eight tabs.

Also remove the centre from the tiny location hole.

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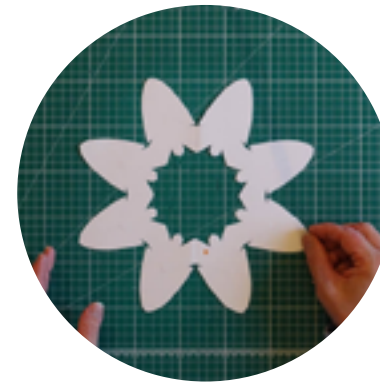
5. Finishing up

### Part 3

Unfold and flatten the A3 sheet...



...snap out the large flower-shaped part...



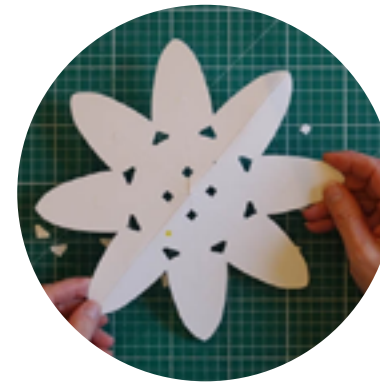
...then remove the piece in the centre.

### Part 4

Do the same with part 4...



...snap out the large flower shaped part...



...then remove the four small squares near the centre and the eight small triangles.

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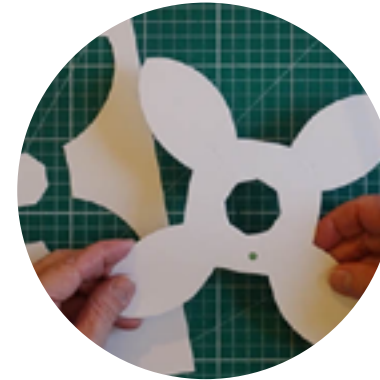
Part 5

Snap out part 5, then remove the octagonal centre piece.



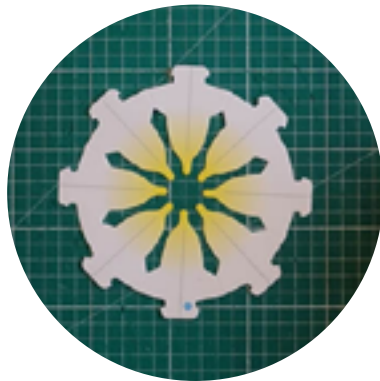
Part 6

Snap out part 6, then remove the octagonal centre piece.



Part 7

Snap out part 7, then remove the star shaped centre piece.



Part 8

Snap out part 8, then remove the star shaped centre piece and the eight slivers of card around it.



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### 3. Pre-folding the pieces

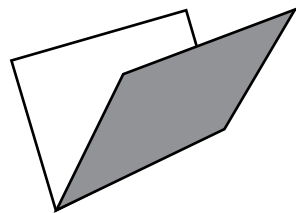
#### Valley folds and mountain folds

If you inspect the fold lines closely on the eight parts you will see that there are two types of lines: creased and perforated.



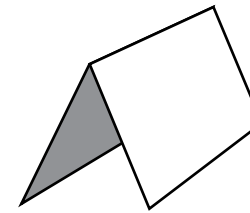
#### Creased lines

These are solid lines indented into the paper by the creasing process - these are **valley folds**:



#### Perforated lines

These are perforated cut lines, like a dotted line - these are to be **mountain folds**:



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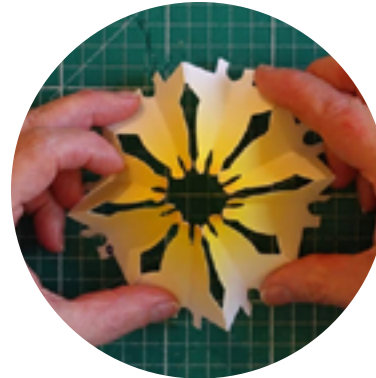
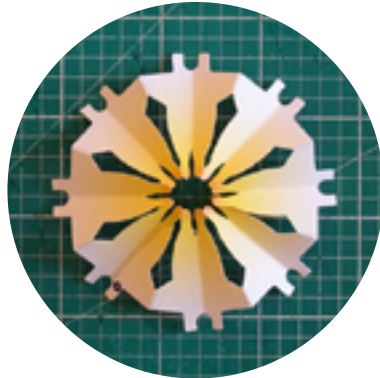
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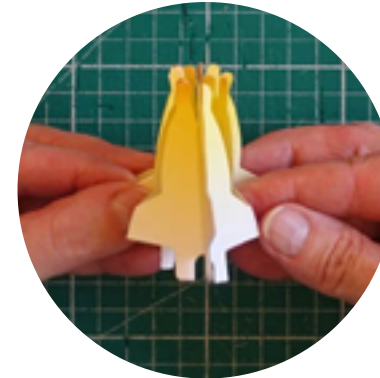
### Part 8

Start with **part number 8**.

Ensure that the printed part number is uppermost, and make the valley folds and mountain folds as shown by the smooth or perforated lines.



Then gather the sides in together so the middle **points up**, as shown.



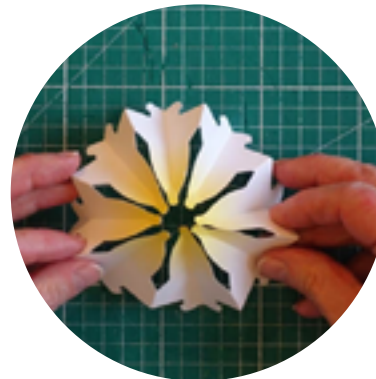
When finished, the printed number 8 should be on the **outside**.

### Part 7

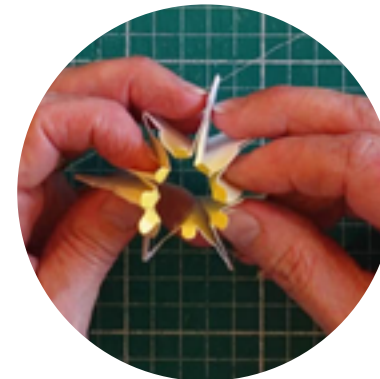
Ensure that the printed part number is uppermost and make all the folds - valleys and mountains.



Then gather the sides in together so the middle **points down**, as shown.



Turn the piece over and gather the sides in together.



When finished the printed number 7 should be on the **inside**.

(To add detail you can gently bend the tops of the stamens outwards at the top.)

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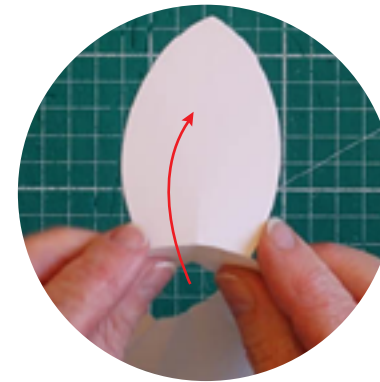
3. Pre-folding

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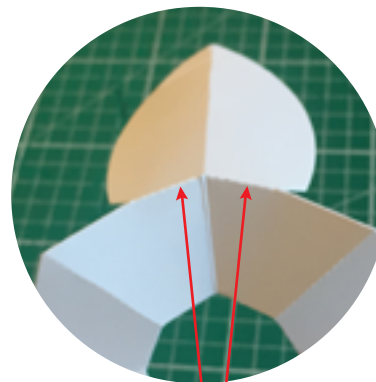
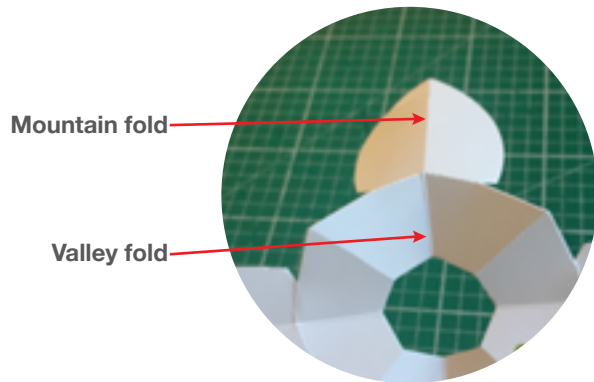
### Part 6

Make the valley and mountain folds around the central hole - but don't fold the creases in the middle of the four petals yet.

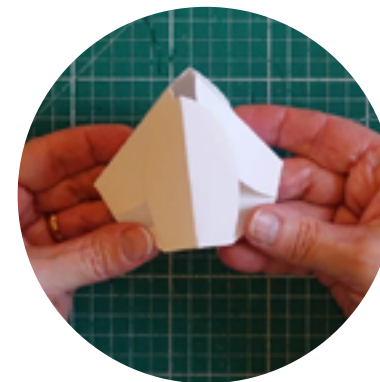


Now you have to **reverse fold** the petal:

With the valley fold made at the base of the petal, fold the petal away from you so that the crease along the middle of the petal is a **mountain fold** and the fold beneath the petal is a **valley fold**.



Also, there are **mountain folds** on the left and right of the base of the petal.



Now do the same for the other three petals.

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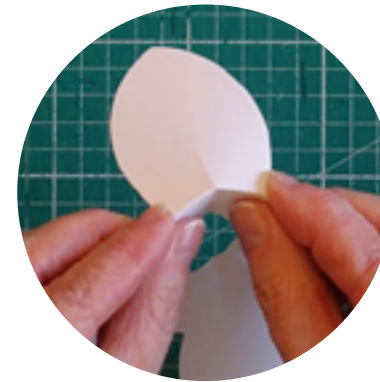
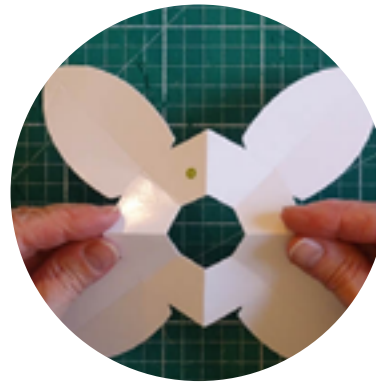
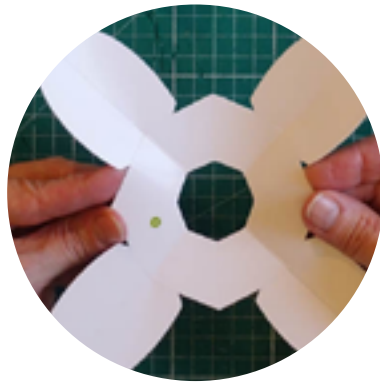
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### Part 5

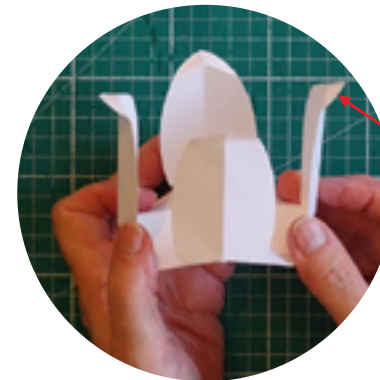
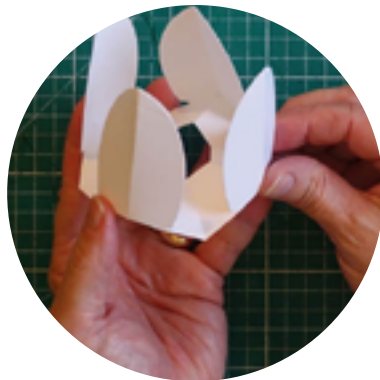
As with part 6, make the valley and mountain folds around the central hole - but don't fold the petals yet.



Now you have to **reverse fold** the petal:

With the valley fold made at the base of the petal, fold the petal away from you so that the crease along the middle of the petal is a **mountain fold** and the fold beneath the petal is a **valley fold**.

Now do the same for the other three petals.



Reverse fold the tips of the petals outwards.



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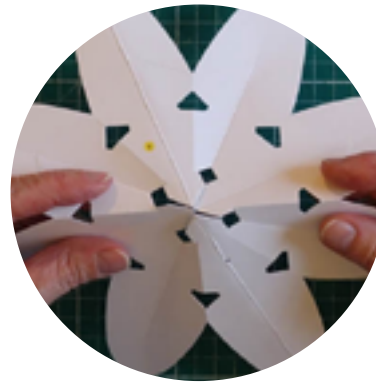
3. Pre-folding

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### Part 4

Make the valley and mountain folds in the middle, but don't fold the petals yet.



**Reverse fold** the petal:

With the valley fold made at the base of the petal, fold the petal away from you so that the crease along the middle of the petal is a **mountain fold** and the fold beneath the petal is a **valley fold**.

Don't crease all the way up the petal, just halfway.

Now do the same for the other seven petals.



The part should be bowl-shaped when finished.

Turn the part over so the printed number is downwards and push the middle downwards.

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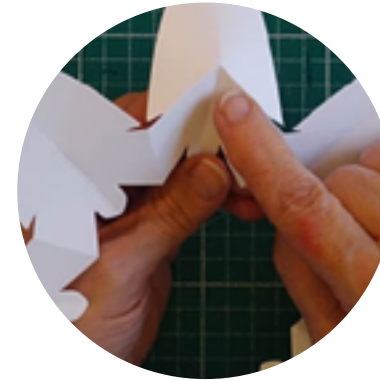
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### Part 3

As before, make the valley and mountain folds in the middle, but don't fold the petals yet.

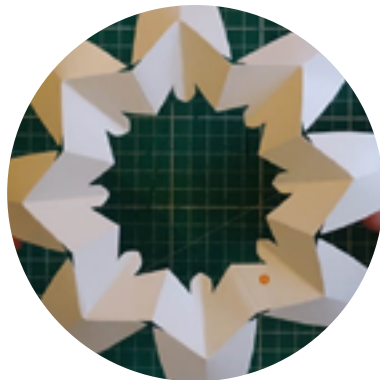


**Reverse fold** the petal:

With the valley fold made at the base of the petal, fold the petal away from you so that the crease along the middle of the petal is a **mountain fold** and the fold beneath the petal is a **valley fold**.

Don't crease all the way up the petal, just halfway.

Now do the same for the other seven petals.



And turn the part over so the number is downwards.

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### Part 2

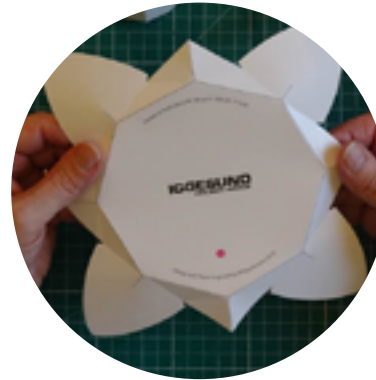
Simply fold the four tabs in the middle up towards you.



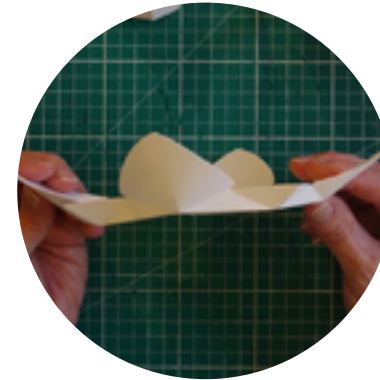
(With the printed number towards you.)

### Part 1

With the printed side towards you, **valley fold** the four petals and the four triangles between the petals up towards you.



Make the **mountain folds** around the octagonal base and the eight vertical creases.



Note that the **mountain folds** are marked in **grey lines** on this part.

When finished part 1 should have a flat base (printed side down), and makes a shallow boat-like tray, with the four petals curving up.

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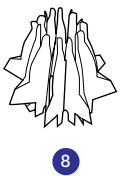
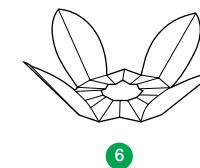
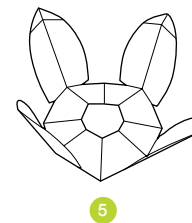
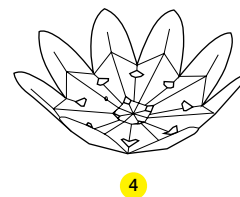
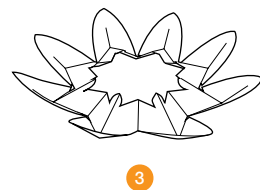
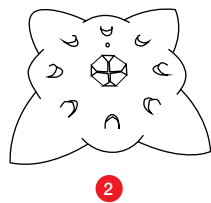
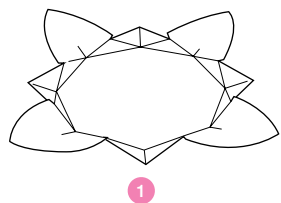
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Eight parts pre-folded!

You should now have all eight parts folded and ready for assembly.



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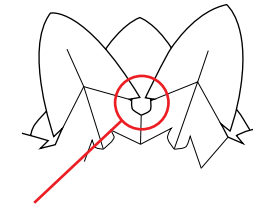
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### 4. Assembly

Join part 3 to part 2

With the printed numbers of parts 2 & 3 facing downwards, place part 3 on top of part 2.



Lift a tab on part 2 and slide part 3 under it so the tab locks into place in the gap between the petals.

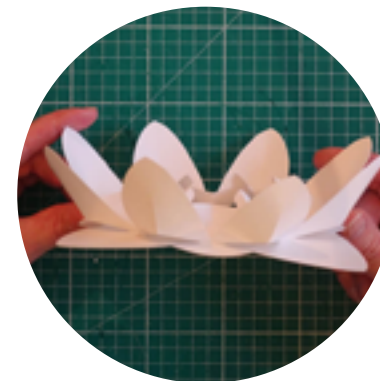


Work around the circle until all the tabs are in place.

When finished, part 3 is held in place by the eight tabs on part 2.



Turn the model over to check that all the tabs are interlocked.



Your model should start to look like a water lily already!

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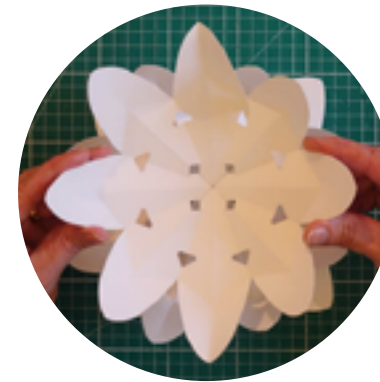
5. Finishing up

### Add part 4

Find the tiny hole on part 2, inside the model, and place the model on the table so this is facing away from you.



Find the tiny hole on part 4.



Put part 4 on top of the model, aligning the two small holes.

Push the pointed tabs of part 3 through the triangular holes of part 4...



...work around the circle...

...until all eight tabs are in place.

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### Lock part 4 in place

Turn the model over.

Fold back the four tabs in the centre of part 2, revealing the four tabs on part 4 beneath...



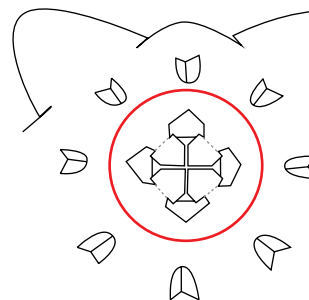
...pull one of these up through the hole and fold it right back...



...now fold the two tabs on either side back into the middle again.

Ensure the tabs interlock on each side of the tab of part 4.

There are three more tabs from part 4 that must be pulled through and locked into place with the interlocking tabs.



Check all four tabs are pulled right through and locked into place by the part 2 tabs.



When finished create a hole in the middle of the model by folding the tabs of part 2 back as well.

(This is particularly important if you intend to add a battery-powered tea light to make your lily into a lantern.)

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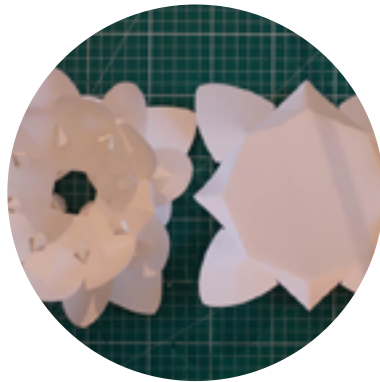
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### Add part 1

Place the model on the table, petal-side down.



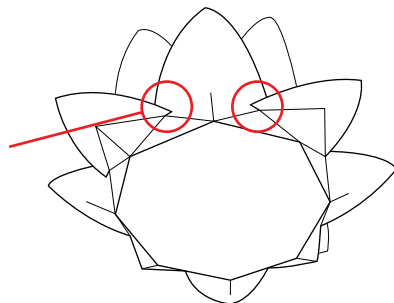
Put part 1 on top of the model...



...making sure that a petal of part 1 is in between two of the petals of part 2.

The petals of part 1 interlock between the petals of part 2.

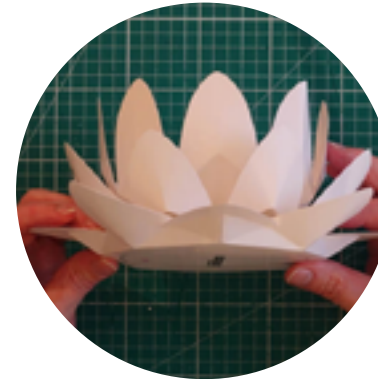
Part 2 has tabs at the base of the petals on both sides...



...interlock the left tab, then the right.



Work around the circle until all the petals are secure.



When finished the model should have a flat base, with all of the petals interlocked.



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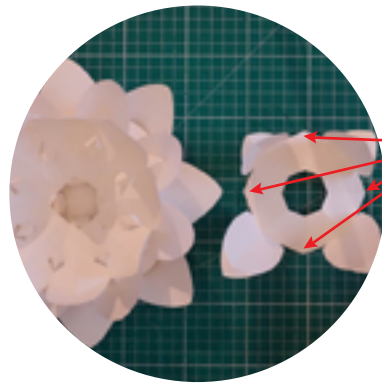
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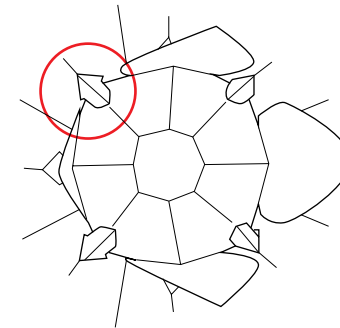
5. Finishing up

Add part 5

Turn the model right side up.



Notice that part 5 has four corners, in between the petals...



...these corners lock underneath four of the eight tabs inside the lily.



Work around the circle until all four tabs are holding part 5 in place.



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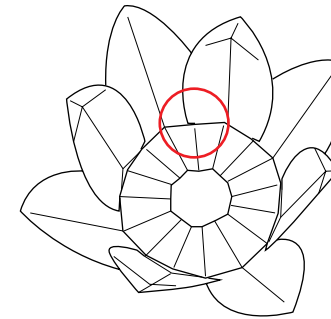
5. Finishing up

Add part 6

Put part 6 inside the model...



...ensuring the petals of part 6 are in between the petals of part 5.



There are interlocking tabs at the base of the petals on part 5.



Pull the bottom edges of the four petals of part 5 inwards to interlock with the petals of part 6.



When finished, gather all eight petals of parts 5 and 6 together, and then release them. This gives a nice shape to the lily.

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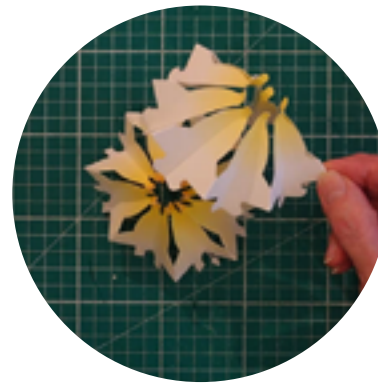
3. Pre-folding

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Add parts 7 and 8

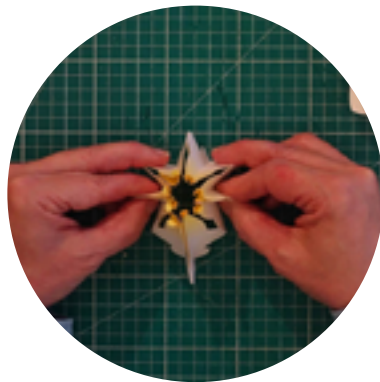
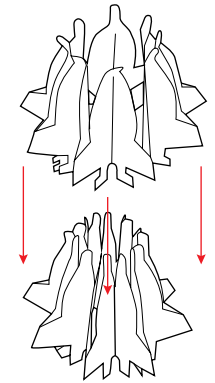
Place the pre-folded parts 7 and 8 on the table.



Carefully put part 7 (outer stamen) over part 8 (inner stamen)...



...so they are properly interleaved.



Gather the interleaved stamens together...



... and holding them with one hand...



...insert them into the hole in the centre of the lily.



The stamen will click in to place and your lily is assembled!

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### 5. Finishing up

#### Adding a tea light

If you would like to make your water lily into a lantern, purchase a battery powered tea light (with a 1.2 inch or 34mm diameter base).

[Here](#) is a link



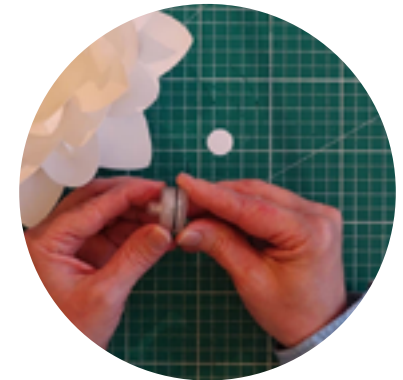
These are available on Amazon or in any good hardware stores.



Tea lights with a **warm white light** are best.



Remove the small piece of plastic protecting the battery.



This particular tea light is turned on by screwing the two halves together.



Remove the stamen and pop the tea light into the lily.



Replace the stamen.



Finished!

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### It floats!



As the outer sheet of lantern is made from plastic coated paperboard, it will float on any smooth body of water.

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Pop-up artist Iain Smyth of Papersmyths created the lily on behalf of Iggesund Paperboard, based on a digital animation showing the creative dimensions of Invercote paperboard.