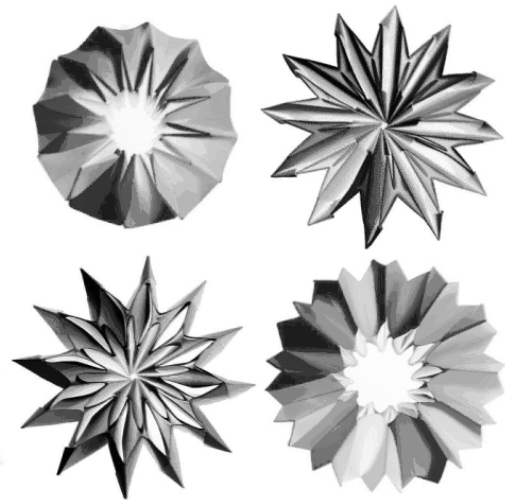


You can have great fun with sprinklers. You can build many spheres with this simple unit, there are only 7 easy folds in one module. Also unexpected spheres are possible, like the 5-pointed-star that's inside this booklet.

But a giant one like the one on the front of the booklet, is also a possibility.

You can also use the modules to make rings. The minimum is 5 modules for a ring, but the tension is high. With 6 you have a nice form that looks like a sprinkler... yes, that's where the name comes from. If you take twelve modules, you can turn it into a rotating ring. With the normal sprinkler module it's a bit difficult to rotate, on one point the tension is relatively high and the possibility exists the joined modules go apart.



The rotating ring made from eleven or twelve sprinkler+ modules however, will rotate smoothly. To have such a ring in your hands is very soothing and relaxing. It's like playing with some anti-stress-balls.

Sprinkler and Sprinkler+ rings, spheres and rotating rings

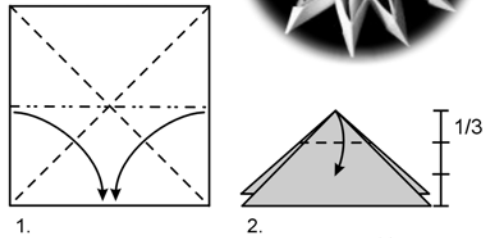


Created and diagrammed by Paula Versnick ©2001/3
<http://www.orihouse.com>

Sprinkler + rotating ring
Paula Versnick © 2001



I called this module 'sprinkler plus' because it's a sprinkler module with a plus-sign on top (the sink). Furthermore it's a more advanced fold, hence plus.



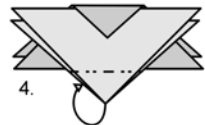
1.



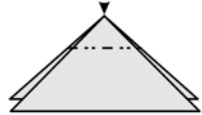
2.



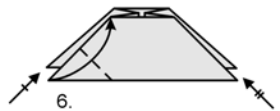
3. Use the first one as a template



4.



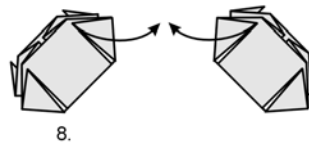
5.



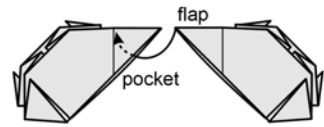
6.



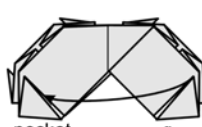
7. make 11x



8.



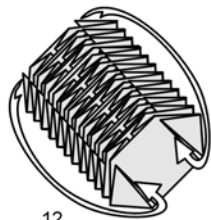
9.



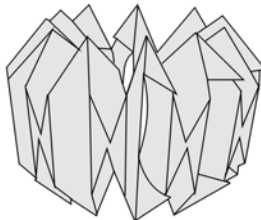
10.



11.



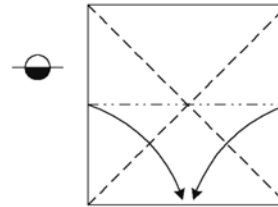
12.



With this module you can make all the spheres you can also make with the sprinkler-module, only the corners will be more fluid.

For example:
12 modules: cube,
octahedron
15 modules: five-pointed star
(only without points)
24 modules: cuboctahedron
30 modules: icosahedron

Sprinkler module
Paula Versnick
(c) 2001



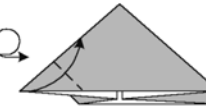
1. Make a waterbomb base with three folds, not four.



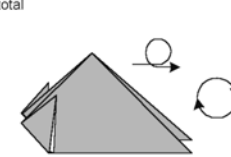
2. Fold the right corner, about a fourth or a third from the total distance.



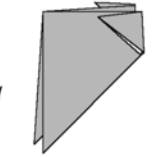
3. Turn around.



4. Fold the left corner, exactly the same distance as the corner in step 2.



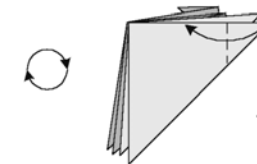
5. Use this half-finished module as a template for the rest of the modules.



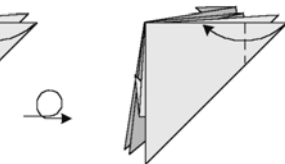
6. The template ready to use.



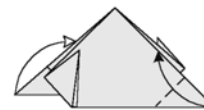
7. Make another waterbomb base with three folds



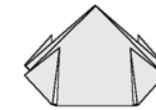
8. Put the template behind the module and make sure the tops points are exactly on top of each other. Fold the right corner the same as on the template.



9. Turn the new module around and repeat on the other side.



10. You can finish the module now by folding the other two points.



11. Finished module. Make as many modules as you need.

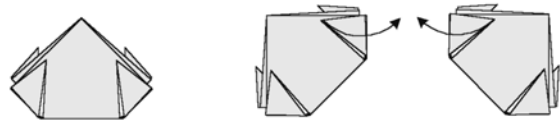
Some of the models I've found with these modules

| Name | Number of modules |
|--------------------------------------|-------------------|
| 1. Sprinkler | 6 (minimum 5) |
| 2. Sprinkler rotating ring | 12 (minimum 9) |
| 3. Sprinklerspheres, based on a cube | 12 |
| octahedron | 12 |
| five pointed star | 15 |
| cuboctahedron | 24 |
| icosahedron | 30 |
| dodecahedron | 90 |
| three pointed star | 9 |
| pyramid | 8 |

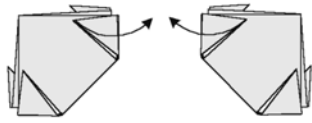
And I'm sure there are more possibilities !

Sprinkler
Paula Versnick
(c) 2001

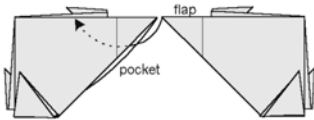
I called this model a sprinkler because it reminds me of the fire sprinklers in ceilings, because this word is used in English and in Dutch, and because it has a nice ring to it.



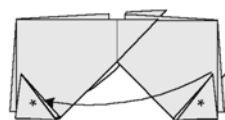
1. Make 6 sprinkler modules.



2. Take two modules and undo two of the folds.



3. Insert the flap of the right module into the pocket of the left module. Restore the folds.



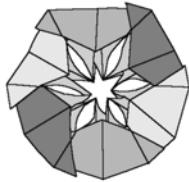
4. Repeat steps 2 and 3 with the marked points.



5. Now you've joined 2 modules together. Repeat steps 2 to 4 until you've got 6 modules joined together.



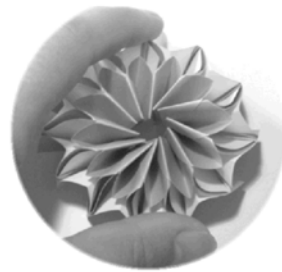
6. Insert the flaps of the last module into the pockets of the first module.



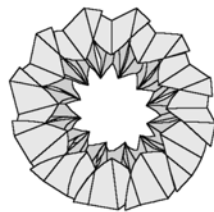
7. Finished!

Sprinkler rotating ring
Paula Versnick
(c) 2001

Start with the sprinkler, but make 12 modules in stead of 6.

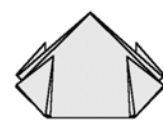
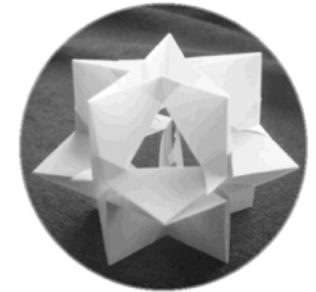


6. Attach 12 modules together just like in the Sprinkler model. Insert the flaps of the last module into the pockets of the first module.

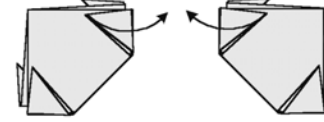


7. Finished!

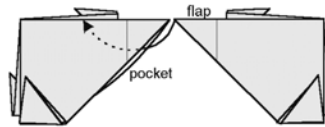
Sprinkler sphere - based on a five pointed star -
Paula Versnick
(c) 2001



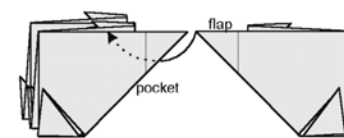
1. Make 15 sprinkler modules.



2. Take two modules and undo two of the folds.



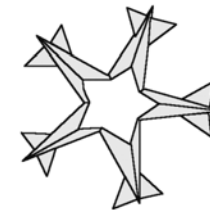
3. Insert the flap of the right module into the pocket of the left module. Restore the folds and put the right module on top of the left.



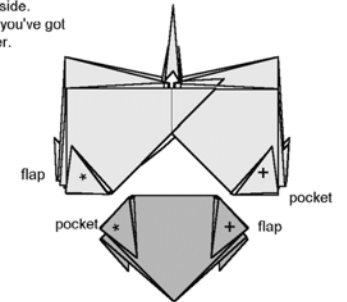
4. Now you've joined 2 modules together, only on the top side. Repeat steps 2 to 4 until you've got 5 modules joined together.



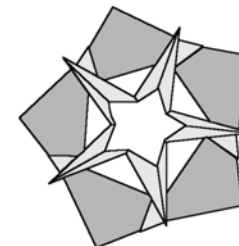
5. Insert the top flap of the last module into the top pocket of the first module.



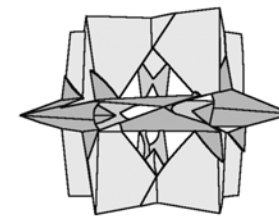
6. Now you've got a star. Top view.



7. Take another 5 modules and add a module between all the modules from the star. The result is a pentagon, formed by the last 5 modules.



8. Top view. Now you've got a star on top of a pentagon.



9. Build another star on the bottom side of the pentagon, here you see the side view. Finished!