

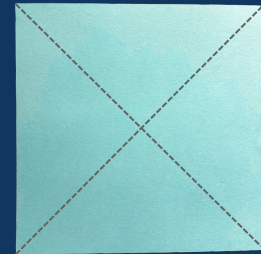
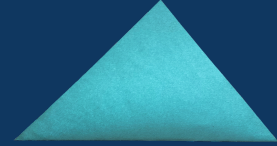
Origami balloons

Get a square sheet of paper and follow the code!

1

```

Get a square paper
repeat 2 times
  fold corner to corner to make a triangle
  unfold
  turn 90 degrees
  
```



2

```

flip over
fold align 4 corners to make a rectangle
  
```



3

```

unfold
flip over
tuck center folds to make large triangles
  
```



This is a long algorithm! Let's use **decomposition** to break it into smaller steps!

```

Get a square paper
repeat 2 times
  fold corner to corner to make a triangle
  unfold
  turn 90 degrees
flip over
fold align 4 corners to make a rectangle
unfold
flip over
tuck center folds to make large triangles
repeat for both flaps on this side
  fold bottom flaps up to make a diamond
  flip over
repeat for both outer corners on this side
  fold outer corner of diamond to center fold
  turn 180 degrees
  fold outer corner of diamond to center fold
  flip over
repeat for both flaps on this side
  fold top flap down in line with side triangle
  fold that folded top flap over side triangle
  tuck that folded top flap into side triangle
  flip over
blow small hole at end of balloon
end
  
```



DID YOU KNOW?

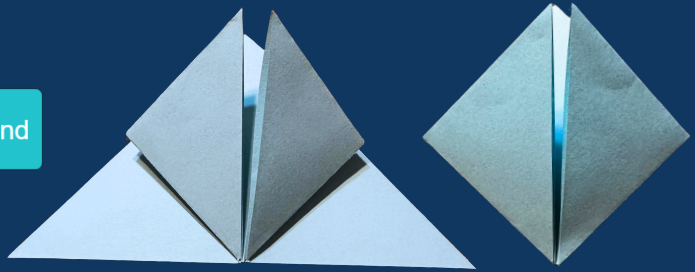
The word *origami* comes from the Japanese word *ori* which means "to fold" and *kami* meaning "paper."

4

repeat for both flaps on this side

fold bottom flaps up to make a diamond

flip over



5

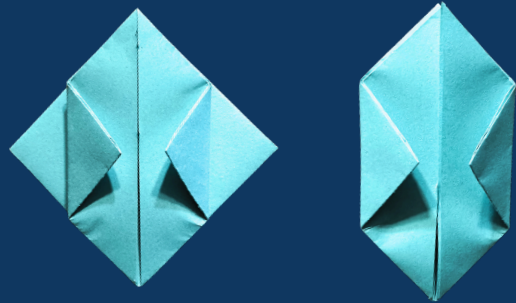
repeat for both outer corners on this side

fold outer corner of diamond to center fold

turn 180 degrees

fold outer corner of diamond to center fold

flip over



6

repeat for both flaps on this side

fold top flap down in line with side triangle

fold that folded top flap over side triangle

tuck that folded top flap into side triangle

flip over



7

blow small hole at end of balloon

end

