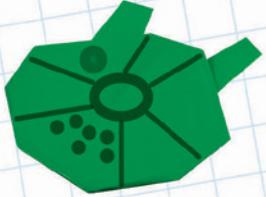
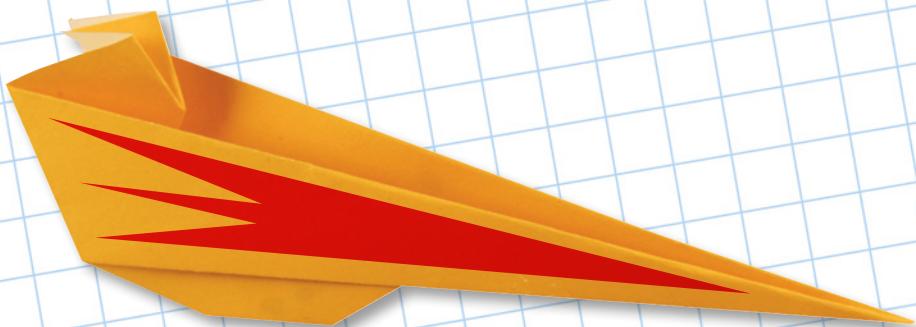


ORIGAMI FUN

# VEHICLES



Express!



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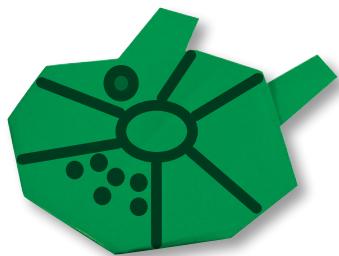
# TABLE OF CONTENTS

<b>Origami Fun</b>	<b>4</b>
<b>Saturn V Rocket</b>	<b>6</b>
<b>Indy Car</b>	<b>8</b>
<b>Submarine</b>	<b>10</b>
<b>Batmobile</b>	<b>12</b>
<b>Titanic</b>	<b>14</b>
<b>Monster Truck</b>	<b>16</b>
<b>Top Fuel Dragster</b>	<b>18</b>
<b>Millennium Falcon</b>	<b>20</b>
<b>Glossary</b>	<b>22</b>
<b>To Learn More</b>	<b>23</b>
<b>Index</b>	<b>24</b>

# ORIGAMI FUN

Origami is the art of folding paper. It has been used for hundreds of years. Origami artists make stunning animals, buildings, and other models from a flat sheet of paper. They fold it carefully and slowly to create a work of art.

Anyone can learn the art of origami. In this book, you will learn how to make fun origami vehicles!



## SUPPLIES

- colorful origami paper
- ruler or metal spoon for flattening folds
- colored markers
- glue
- scissors

## ORIGAMI SYMBOLS

Below are key origami instruction symbols. You will find these throughout the book.

Valley fold

Mountain fold

Center line

Fold direction



Pleat fold



Flip paper

Cut line

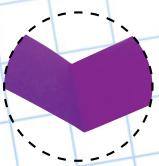


Rotate paper

# ORIGAMI FOLDS

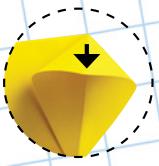
## Valley fold

Lift the paper and bend it toward you.



## Squash fold

Two layers open and are then squashed flat.



## Mountain fold

Bend the paper backward, away from you.



## Inside reverse fold

Push the tip of the paper inward, then flatten.



## Pleat fold

First fold the paper in one direction and then in the opposite direction.

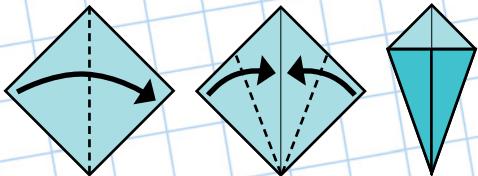


## Outside reverse fold

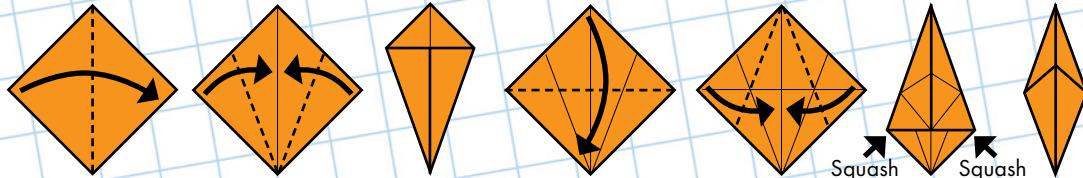
Open the paper slightly and fold the tip outward, then flatten.



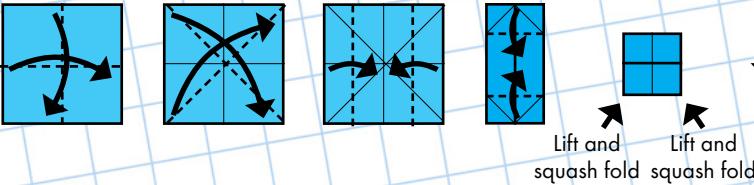
## Kite base fold



## Fish base fold



## Boat base fold



Lift and  
squash fold

Lift and  
squash fold

Lift and  
squash fold

# SATURN V ROCKET

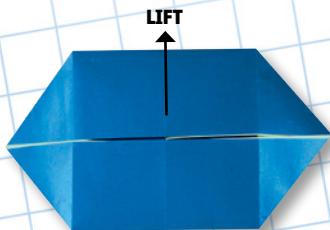
Saturn V was a powerful rocket! First used in 1967, it carried spacecraft for many Apollo missions. It helped humans fly to the moon! Saturn V used three stages to reach the moon. Each stage dropped off after the fuel inside was used up. The Saturn V helped spacecraft fly nearly 25,000 miles (40,234 kilometers) per hour!

## Paper size:

2 square sheets of origami paper,  
6 x 6 inches (15 x 15 centimeters)

1

To make the base of the rocket, start with a boat base. Lift open the top section and flatten.



5

Valley fold the bottom triangle to the left.



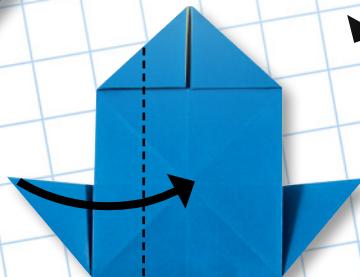
2

Your model should look like this. Turn over your model.



4

Valley fold the left side to the center.



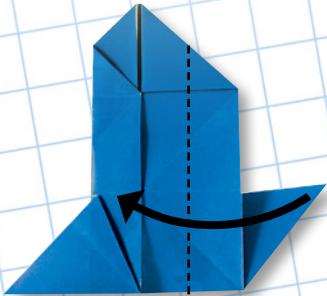
3

Valley fold in the left and right sides.

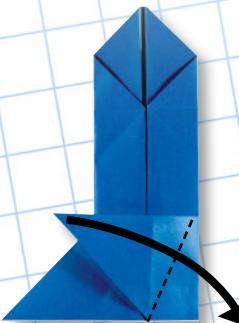


**6**

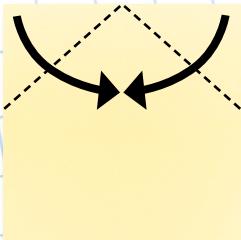
Valley fold the right side to the center.

**7**

Valley fold the bottom triangle to the right. Put to one side.

**8**

To make the top, start with your paper colored-side down. Valley fold the top left and right corners to the center.

**9**

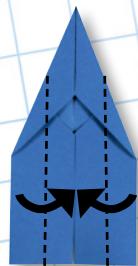
Valley fold the left and right sides to the center.

**10**

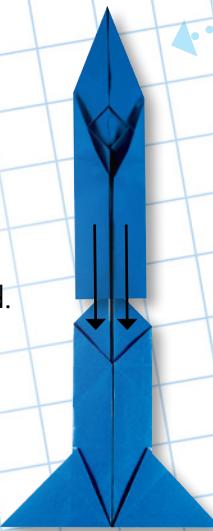
Valley fold the top left and right corners to the center.

**11**

Valley fold the left and right sides to the center.

**12**

Slot the top model into the top of the base about a third of the way down. Secure with glue if needed. Turn over your model and add details to complete the rocket.



## READY TO LAUNCH!



# INDY CAR

Indy cars are speedy vehicles that zip around racetracks. Drivers sit in an open **cockpit** in the middle of the car. The most famous Indy car race is the Indianapolis 500, or Indy 500. Racers drive 500 miles (805 kilometers) over 200 laps. The cars reach over 230 miles (370 kilometers) per hour in this race!

## Paper size:

Square sheet of origami paper,  
6 x 6 inches (15 x 15 centimeters)

1

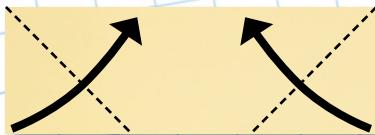
Place your paper colored-side down. Cut your paper into three equal strips.

CUT →.....

CUT →.....

2

Take one strip of paper to make a car. Valley fold up the left and right sides, then unfold.



4

Mountain fold back the left and right sides, then unfold.



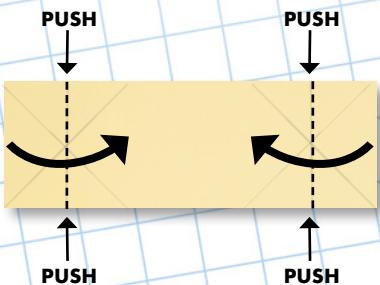
3

Valley fold down the left and right sides, then unfold.



5

Valley fold in the left and right sides, pushing in the top and bottom triangles as you do so.



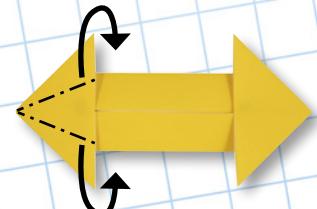
6

You model should now look like this. Valley fold in the back layers.



7

Mountain fold back the left triangles.



8

Valley fold over the right side to the left, tucking it into the left side.



9

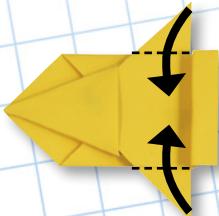
Pleat fold the right side to make the rear wing.



10

Valley fold up the top and bottom triangles. Your first car is now complete.

Repeat the instructions with the other strips of paper to make two more cars.



**OFF TO THE RACES!**

# SUBMARINE

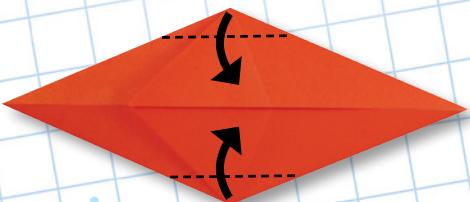
Submarines are naval ships that can move above or below the surface of the water. The first submarine was built in the 1620s and was powered by hand oars. Today, submarines have sleek metal bodies and use **nuclear power**. Scientists are working hard to help submarines go faster and deeper underwater!

## Paper size:

Square sheet of origami paper,  
6 x 6 inches (15 x 15 centimeters)

1

Start with a fish base.  
Valley fold the top and  
bottom in to the center.



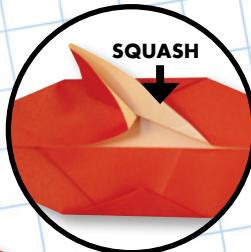
4

Valley fold the right side  
over to the left.



2

Valley fold up the top flap,  
opening up the flap as you  
go and then squashing it flat.



3

Valley fold the  
top point down.



5

Valley fold the bottom up to the top.



6

Make an inside reverse fold to the left side.



9

Your model should now look like this.  
Turn over your model  
and add some details.



## TIPS AND TRICKS

*Always look ahead to the next step  
so you can see where you are going.*

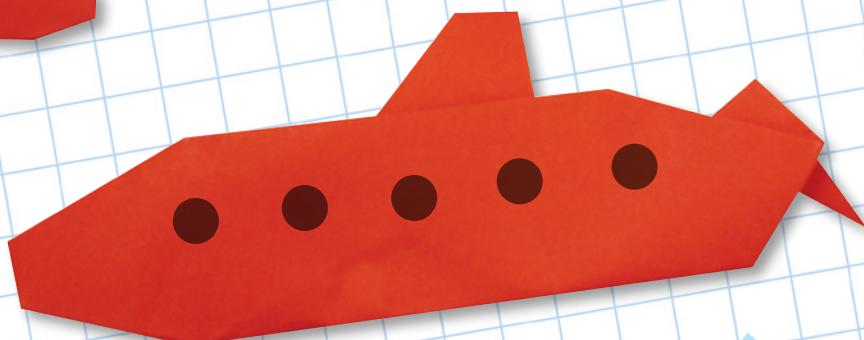
7

Make another  
inside reverse fold  
to the left side.



8

Make one last inside reverse fold  
to the right side to shape the  
nose of your submarine.



# BATMOBILE

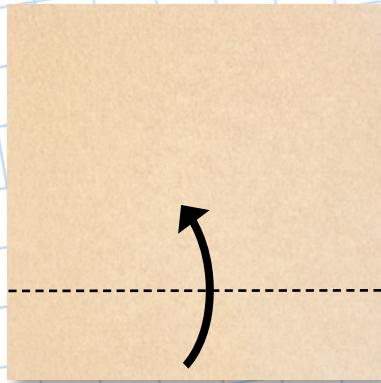
Batman's car, the Batmobile, is one of the most famous **fictional** vehicles in the world. There have been many versions of the Batmobile over the years. The most well-known Batmobile appeared in the 1960s television show, *Batman*. It had rockets, lasers, and **parachutes**. For a quick getaway, it dropped **oil slicks** to slow down bad guys.

## Paper size:

Square sheet of origami paper,  
6 x 6 inches (15 x 15 centimeters)

1

Start with your paper colored-side down. Valley fold up the bottom about a quarter of the way up the paper.

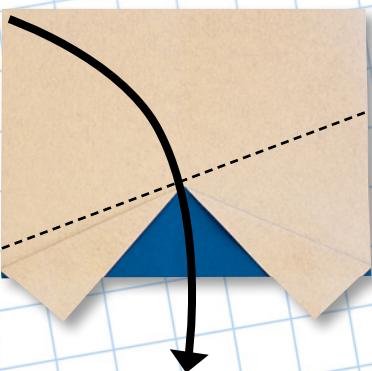


2

Valley fold down the upper left and right sides.

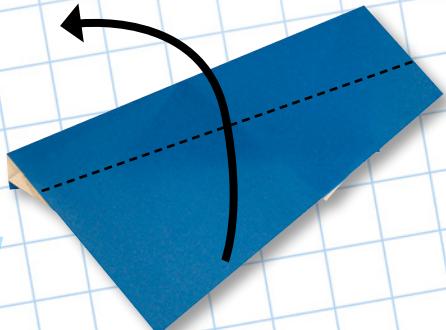
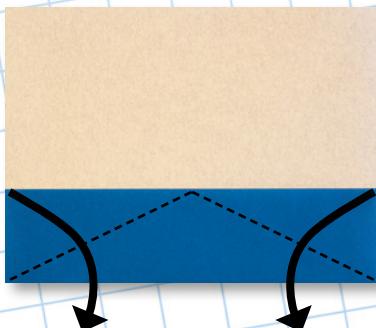
3

Valley fold down the top.



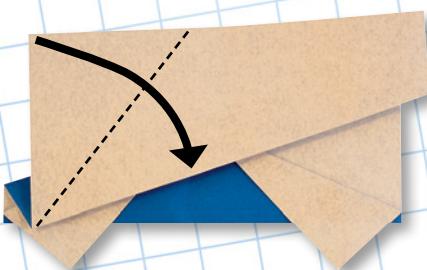
4

Valley fold up the paper.



5

Valley fold down the top left corner.



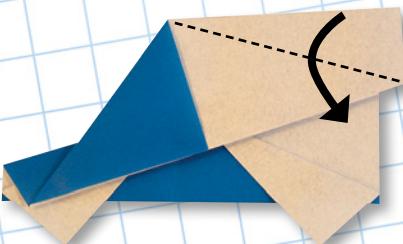
7

Valley fold down the top left side.



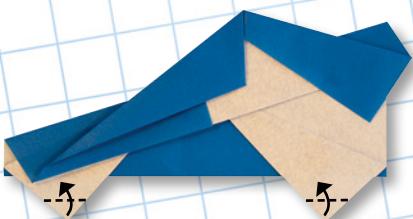
6

Valley fold down the top right corner.



8

Valley fold up the two bottom points to shape the wheels.



9

Your model should now look like this. Turn over your model and add some bat-shaped details.



## CRIME-FIGHTING MACHINE!



# TITANIC

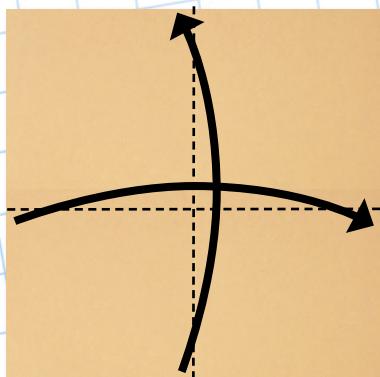
When it was built, the RMS *Titanic* was one of the grandest ships in the world. People believed this huge passenger liner was unsinkable. However, on its first trip in April 1912, the ship hit an iceberg and sank. More than one hundred years later, the **tragic** story of the *Titanic* lives on.

## Paper size:

Square sheet of origami paper,  
6 x 6 inches (15 x 15 centimeters)

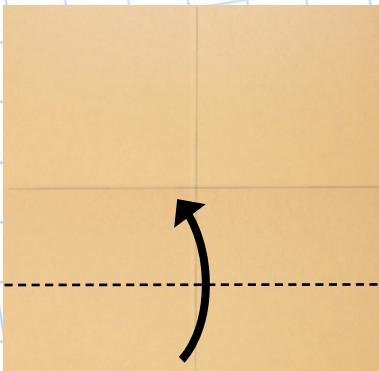
1

Start with your paper colored-side down. Valley fold your model in half vertically and horizontally. Unfold your model.



2

Valley fold up your model.



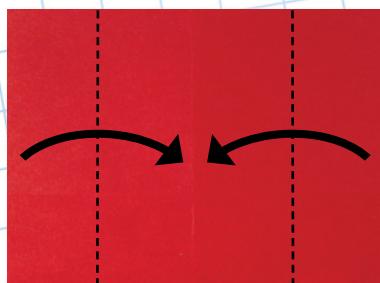
3

Your model should now look like this. Turn over your model.



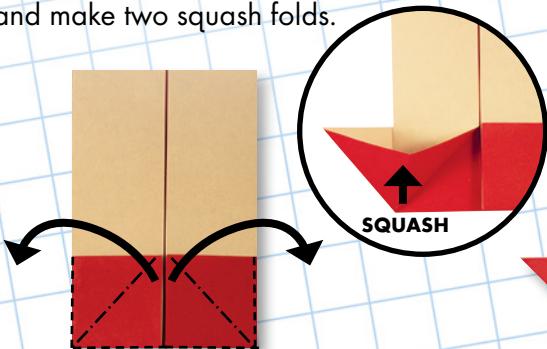
4

Valley fold in the left and right sides.



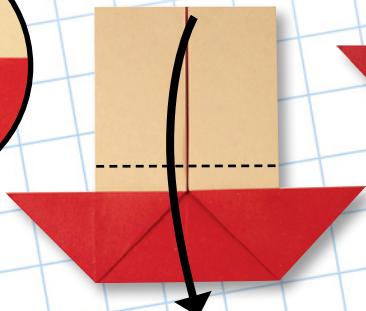
5

Open the bottom squares and make two squash folds.



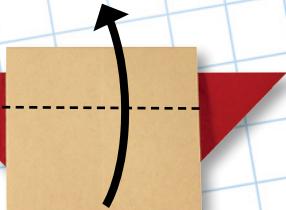
6

Your model should now look like this. Valley fold down the top.



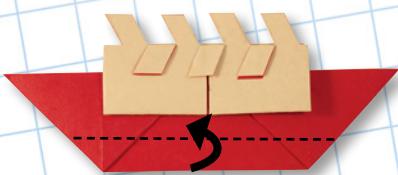
7

Valley fold up the bottom.



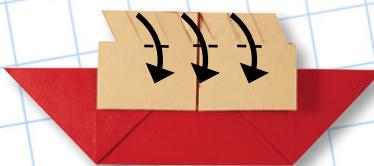
10

Valley fold up the bottom.



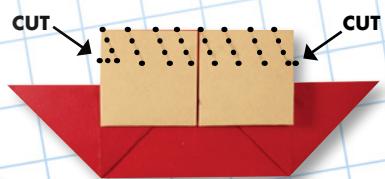
9

Alternately valley fold down three of the seven sections.



8

Make eight cuts in the top layer of the paper. Be careful not to cut the paper behind.



11

Your model should now look like this. Turn over your model and add some details to complete it.



## FULL STEAM AHEAD!



# MONSTER TRUCK

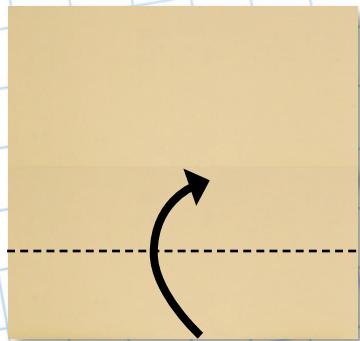
Monster trucks are vehicles with powerful engines and big wheels. Their tires are 66 inches (1.7 meters) tall! Monster trucks were first built in the 1980s as **modified** pickup trucks. Today, most monster trucks are specially built to protect drivers in crashes or rollovers. This lets monster trucks do wild tricks!

## Paper size:

Square sheet of origami paper,  
6 x 6 inches (15 x 15 centimeters)

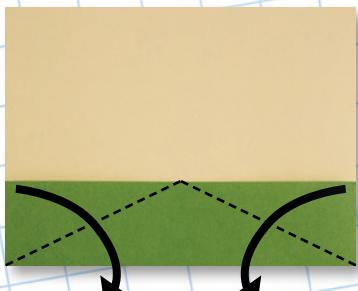
1

Place your paper colored-side down. Valley fold up your paper to the center.



2

Valley fold down the left and right sides.



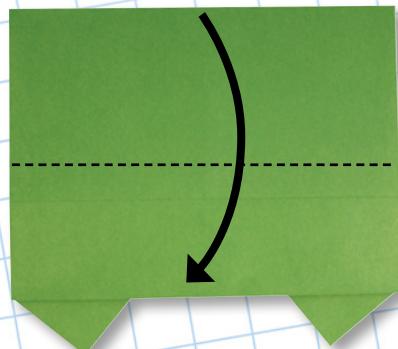
3

Your model should now look like this.  
Turn over your model.



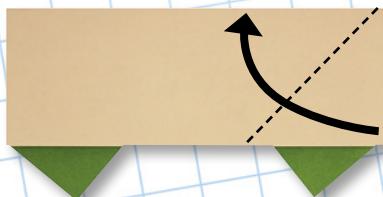
4

Valley fold down your paper.



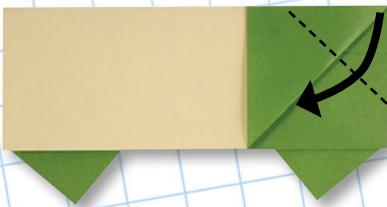
5

Valley fold up the top layer of the bottom right corner.



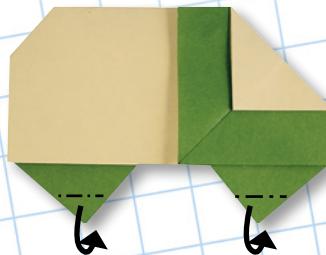
6

Valley fold in the top right corner



9

Mountain fold back the bottom triangles to shape the wheels. Add details to finish your truck.

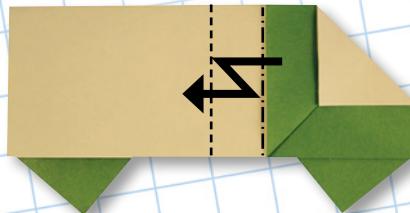


## TIPS AND TRICKS

*Make a soft crease in the paper.  
Make sure it is in the right place  
before you press down hard  
to make a sharp crease.*

7

Pleat fold your model to the left.



8

Mountain fold the top left corner to shape the truck.



**RUMBLE,  
RUMBLE!**



# TOP FUEL DRAGSTER

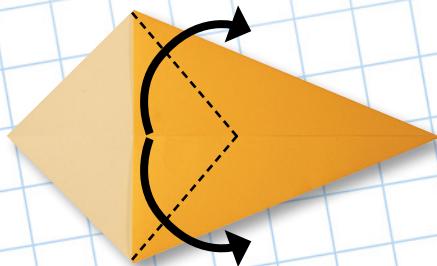
Top fuel dragsters are some of the fastest vehicles in the world! Their **supercharged engines** power them to speeds of more than 330 miles (531 kilometers) per hour. Top fuel **drag races** only last a few seconds. At the end of the race, parachutes shoot out behind the vehicles. This slows them down.

## Paper size:

Square sheet of origami paper,  
6 x 6 inches (15 x 15 centimeters)

1

Start with a kite base fold.  
Valley fold out the upper  
top and bottom layers.



2

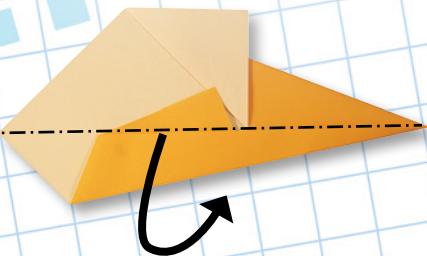
Valley fold over the  
bottom side to the center.



3

Mountain fold your model  
in half. Be careful not to fold  
the upper colored layer, too.

Keep that flat as you fold.



4

Your model should  
now look like this.  
Valley fold the bottom  
to shape the back wheel.



5

Valley fold the bottom again to finish your back wheel.



6

Valley fold down the top.

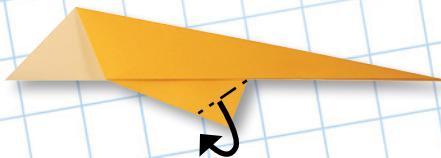


## TIPS AND TRICKS

Origami is a calm hobby.  
Go slowly and enjoy it!

7

Your model should now look like this. Mountain fold the bottom to shape your second back wheel.



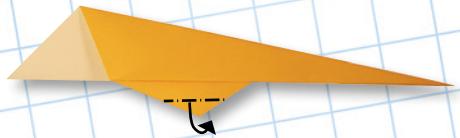
9

Your model should now look like this. Make an inside reverse fold to the left side of your model.



8

Mountain fold the bottom again to finish your second back wheel.



10

Make another inside reverse fold to finish the back of your model. Add some details to complete your model.



## READY, SET, RACE!

# MILLENNIUM FALCON

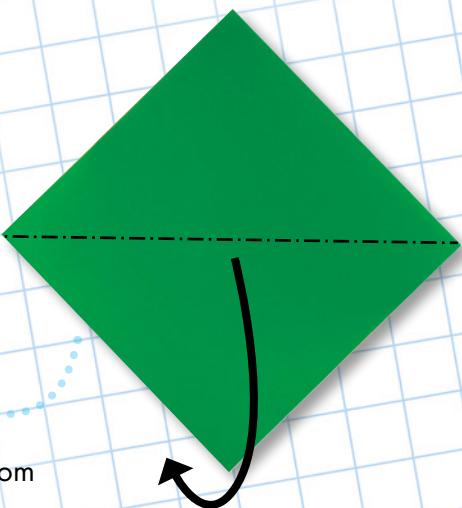
The *Millennium Falcon* is a spacecraft from the Star Wars movies. It was built for carrying cargo. But its pilot, Han Solo, took the ship on many adventures! The *Falcon* helped destroy the Death Star and defeat the evil Empire. Many years later, Rey used the *Falcon* to rescue Resistance fighters in *The Last Jedi*.

## Paper size:

Square sheet of origami paper,  
6 x 6 inches (15 x 15 centimeters)

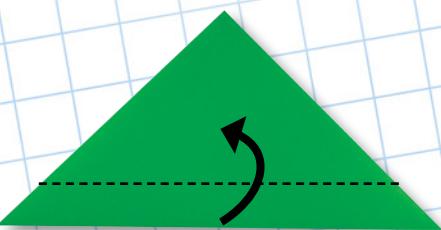
1

Start with your paper colored-side up. Mountain fold your paper in half.



2

Valley fold up the bottom of your paper.



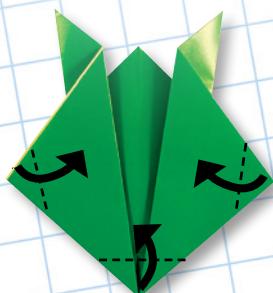
3

Valley fold in the left and right sides.



4

Valley fold in the left, right, and bottom corners.



5

Valley fold down the top points and tuck in.



6

Valley fold the inner edges.



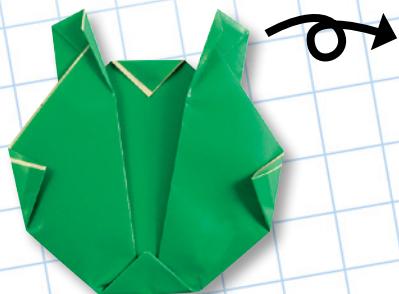
7

Valley fold down the top point.



8

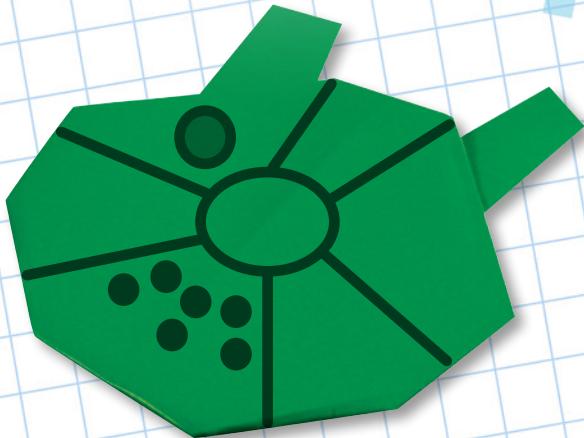
Turn over your model and draw on some details on to finish it.



## TIPS AND TRICKS

*When flattening a fold, be careful not to damage the paper.*

## FASTESt SHIP IN THE GALAXY!



# GLOSSARY

**cockpit**—the part of a small vehicle where the driver sits

**drag races**—short races at very high speeds

**fictional**—not real

**missions**—specific jobs or tasks

**modified**—changed to meet a specific need

**nuclear power**—energy that is created by splitting apart tiny particles called atoms

**oil slicks**—thin layers of oil; oil makes the ground slippery.

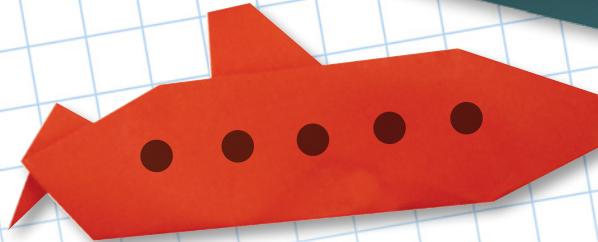
**parachutes**—large pieces of cloth that catch air to slow something down

**stages**—sections of a rocket with their own fuel and engine

**supercharged engines**—engines that have extra energy or power

**tragic**—related to something that was disastrous or very sad

# TO LEARN MORE



## AT THE LIBRARY

Adamson, Thomas K. *Indy Cars*. Minneapolis, Minn.: Bellwether Media, 2019.

Green, Sara. *On-screen Vehicles*. Minneapolis, Minn.: Bellwether Media, 2020.

Oachs, Emily Rose. *Titanic*. Minneapolis, Minn.: Bellwether Media, 2020.

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# INDEX

- Batmobile, 12-13
- boat base, 5, 6
- crease, 17
- damage, 21
- fish base, 5, 10
- history, 4
- hobby, 19
- Indy car, 8-9
- kite base, 5, 18
- look ahead, 11
- Millennium Falcon*, 20-21
- monster truck, 16-17
- Saturn V rocket, 6-7
- submarine, 10-11
- supplies, 4
- techniques, 4-5
- Titanic*, 14-15
- top fuel dragster, 18-19

