

Become An **ORIGAMI MASTER**

Stage 1 – Yellow Belt



Your DT this Spring term will all lead up to you becoming an origami master

First you must learn the art of folding. Have a go at practicing these different types of folds. You will need to know them as you progress through the lessons.

Diagonal/Shawl Fold

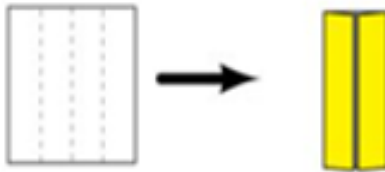


<https://youtu.be/DO99Fhyfrrc>

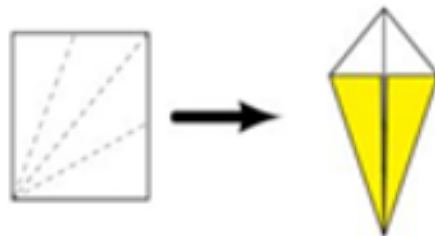
Book Fold



Cabinet Fold



Kite Fold/Kite Base



<https://youtu.be/gzdyL90ZtR0>

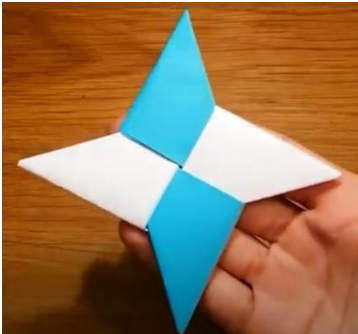
Blintz Base



<https://youtu.be/i3STkeLtzm4>

Use Skills

Perfect your new skills by creating one or more of the following shapes



Ninja Star

<https://www.youtube.com/watch?v=RshX97WMWDw>



Heart

<https://www.youtube.com/watch?v=O9WV4Mm0En8>



Woodpecker

<https://www.youtube.com/watch?v=lfX3otdbu3k>

Become An **ORIGAMI MASTER**

Stage 2 – Orange Belt



Time to practice some more folding skills. Have a go at these 5 folds, watch the videos to help you master the skills.

Pleat Fold



<https://youtu.be/1qXdDzJNuDc>

Rabbit Ear Fold



https://youtu.be/z8_2lWM8W64

Square Base



<https://youtu.be/obqWWSPfAgg>

Squash Fold



<https://youtu.be/5ADtNYrUvCQ>

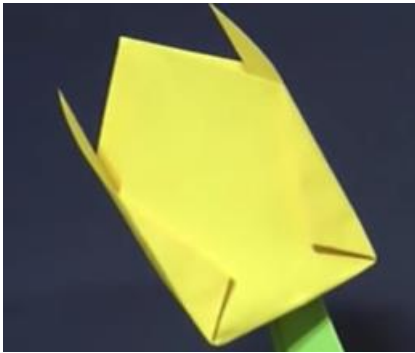
Waterbomb Base



<https://youtu.be/7kwgexfn8IE>

Use Skills

Perfect your new skills by creating one or more of the following shapes



Tulip

<https://youtu.be/D5EwxPeDUYU>



Easy Penguin

<https://youtu.be/jJZFPjXKzI>



Crab

https://youtu.be/mOp1Of_3Css

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Stage 3 – Blue Belt

Are you ready to practice more folding skills. You are now very close to becoming an origami master.

Inside Reverse Fold



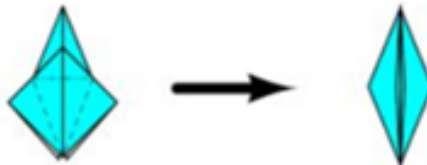
<https://youtu.be/DAMGWTxgv6E>

Petal Fold



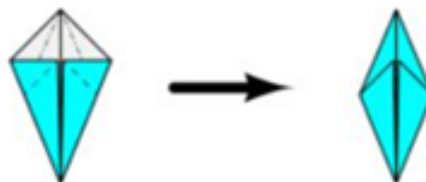
<https://youtu.be/dzrbQHVdbaU>

Bird Base



<https://youtu.be/E95AYqd1P2c>

Fish Base



<https://youtu.be/82PuKG0fSBA>

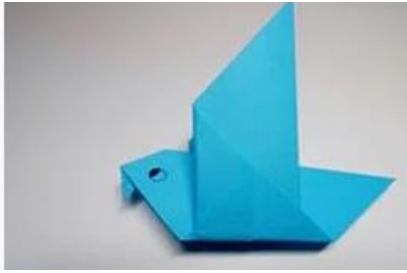
Double Boat Base



<https://youtu.be/7yCLbPAKqdl>

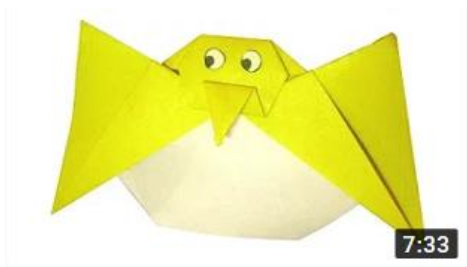
Use Skills

Perfect your new skills by creating one or more of the following shapes:



Pigeon

<https://youtu.be/beyzDR2dHh8>



Bird in an Egg

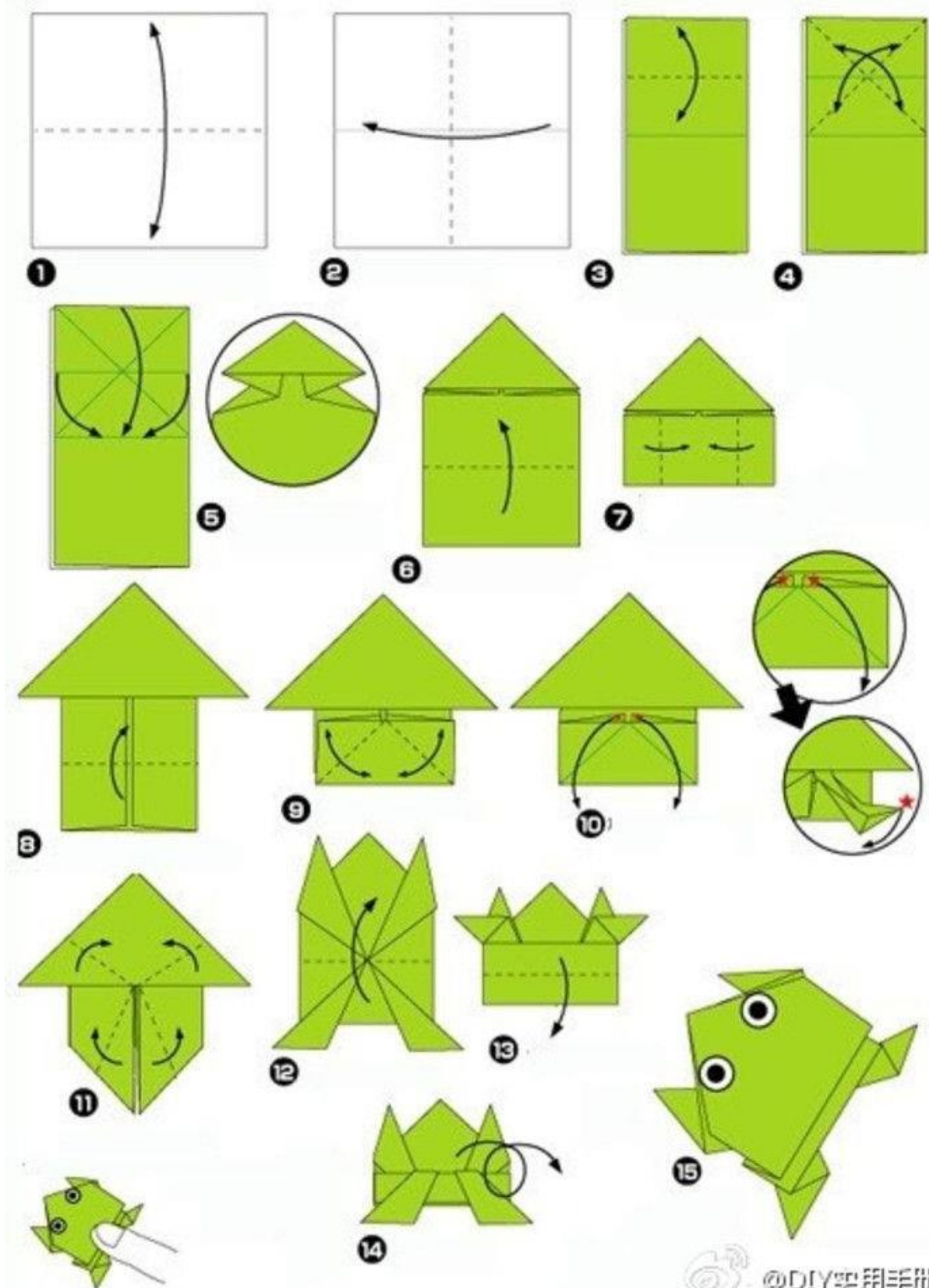
https://www.youtube.com/watch?v=seSE_tVA-Z0



Rabbit

<https://youtu.be/MAhe0FNviu8>

Bonus Creation – jumping frogs

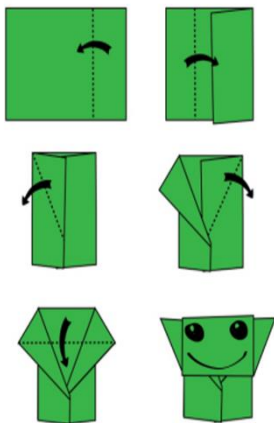


ORIGAMI MASTER

Final Stage



This week you will be combining all the skills you have learnt over the past few weeks to create your own origami masterpieces. Choose a level that suits you or alternatively if you do not wish to make Yoda create an origami masterpiece of your choice. Send a picture of your finished creation to your teacher.



Yoda - 1 chilli



Yoda - 2 chilli



<https://www.youtube.com/watch?v=f4VY5qEIOLg>



This version of Yoda is extremely hard and will take a lot of patience and skill to complete. It may be best to complete it in small step

https://www.youtube.com/watch?v=U5B71d1OR_M

CARDBOARD BOAT

ENGINEERING CHALLENGE 07

Designed by Ben,
Design engineer at Dyson

The brief

Construct a boat to support up to 250g without sinking.

The method

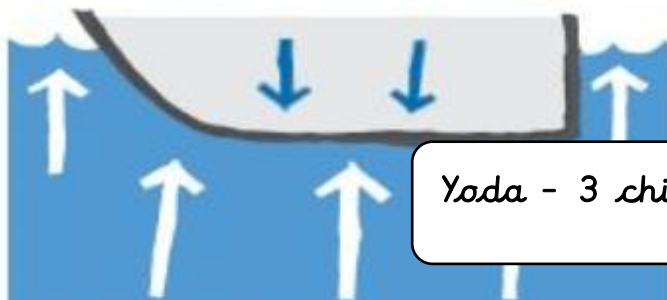
1. Draw out the basic shape of your boat on the cardboard, and cut it out.
2. Create walls for your boat from more cardboard.
3. Stick the bottom of the boat and the walls together with tape or glue.
4. Back everything with wax paper or foil – be careful not to leave any gaps where the water can get in.
5. Place the 250g weight in the boat.
6. Set your boat afloat.

Materials

Cardboard
Wax paper
Tape or glue
Rubber bands
Foil
Scissors
(with adult supervision)
Craft knives
(with adult supervision)
A 250g weight

Top tip

Think about stability. Some shapes are more stable than others when a load is applied.



How does it work?

When a boat is placed in water, it displaces an amount of water equal to the boat's weight – as long as the object is less dense than the water, it will float.

Design icons



Yoda - 3 chilli



Atlantic. Designed by Isambard Kingdom Brunel in 1845, it was the first ship to combine an iron body with a screw propeller.