



©2018 DESIGNED BY PLAYSTEAM EDUCATION LIMITED, LONDON.
WEBSITE: WWW.PLAYSTEAM.COM EMAIL: INFO@PLAYSTEAM.COM ADDRESS: SUITE 35 - 36 THE DESIGNWORKS,
PARK PARADE, LONDON, NW10 4HT. MANUFACTURED BY HANGZHOU ZT MODEL COMPANY LIMITED. ADDRESS: NO 6
MINGDE RD., PUYAN, BINJIANG, HANGZHOU, CHINA.

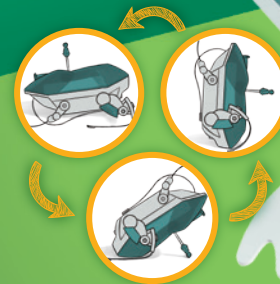
PLAY • READ • INSPIRE



THE LEARNING BOOKLET

— FOR THE BIONIC ROBOT FROGZILLA —

Read to be inspired!



Hops and turns over!



WARNING:
CHOKING HAZARD - Small parts,
Not for children under 3 years.

AGES **8+**



TABLE OF CONTENTS

 Warning Message	.....	01
 Package Contents	.....	04
 Installation Instructions	.....	07
 Activities	.....	15
 Fun Facts	.....	25

WARNING MESSAGE

GENERAL WARNING

Before you begin, please read through the instructions together with your children. Make sure you understand the safety messages. Please keep the packaging and instructions, as they contain important information.

This kit is designed for children over 8 years of age.

CHOKING HAZARD - Small parts, not for children under 3 years.

Children should have parental supervision when assembling the product.

Water and rain will damage the electronic components.

Please clean the product with a clean cloth when necessary.

Make sure to remove the batteries from the battery compartment before cleaning.

OTHER WARNINGS

Using a screwdriver

You must always be supervised by an adult when using a screwdriver. The metal may have sharp edges that can cause injury.

Using batteries

- Do not charge non-rechargeable batteries;
- Do not mix different types of batteries or new and used batteries;
- Insert batteries with correct polarities;
- Remove exhausted batteries from the toy;
- Do not short-circuit supply terminals;
- Remove rechargeable batteries from the toy before charging;
- Charge rechargeable batteries under adult supervision only.
- Do not use rechargeable batteries.

1 | WARNING MESSAGE

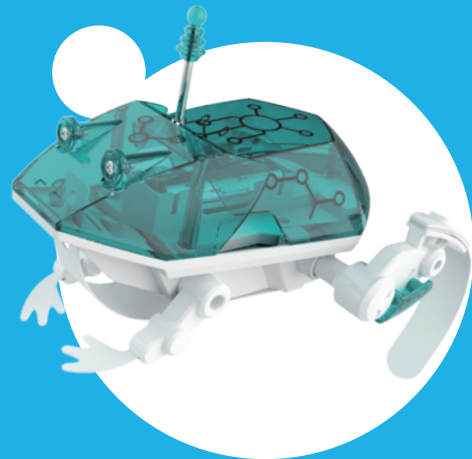




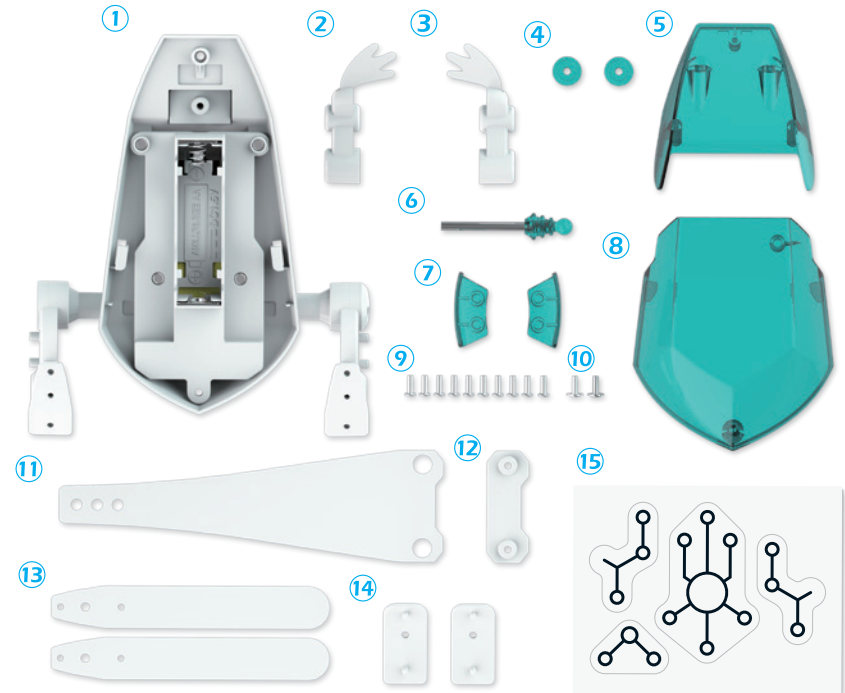
Read to be inspired!



2 | PACKAGE CONTENTS



Package Contents

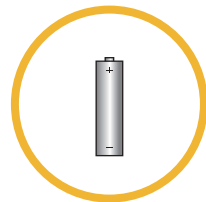


Serial	Name	Quantity	Serial	Name	Quantity
1	Frog body	1	9	PB2.3*6mm Screw	9+1(spare)
2	Left foreleg	1	10	PWB2.3*6mm Screw	2
3	Right foreleg	1	11	Abdominal strip	1
4	Eyes	2	12	Abdominal strip fixing plate	1
5	Frog head	1	13	Rear leg blade	2
6	Flipping antenna	1	14	Rear leg blade fixing plate	2
7	Knee cover	2	15	Stickers	1
8	Body cover	1			

Required Tools

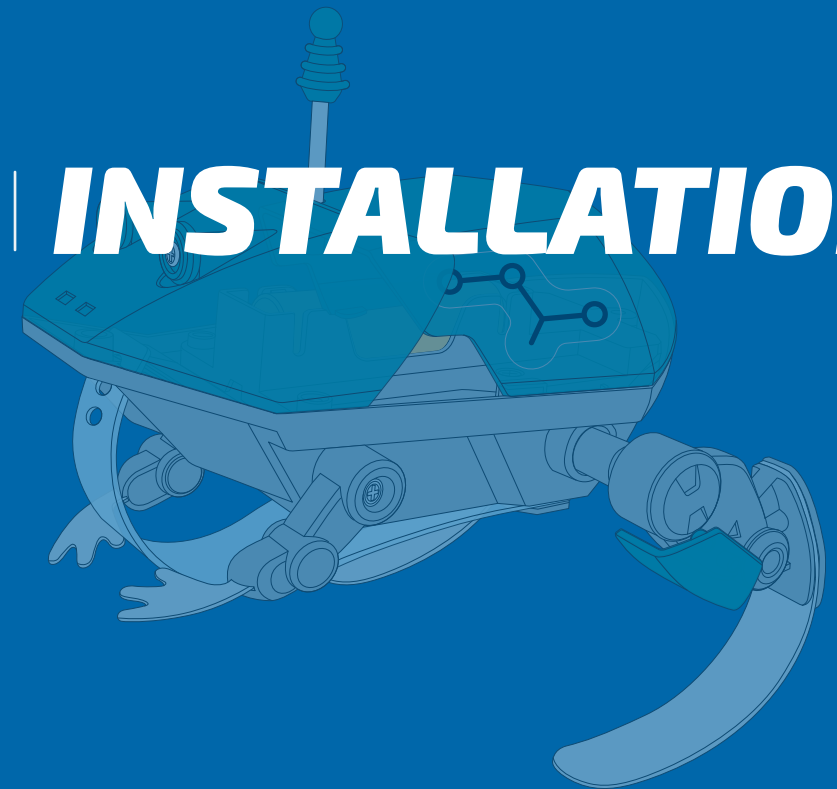


Cross-head screwdriver

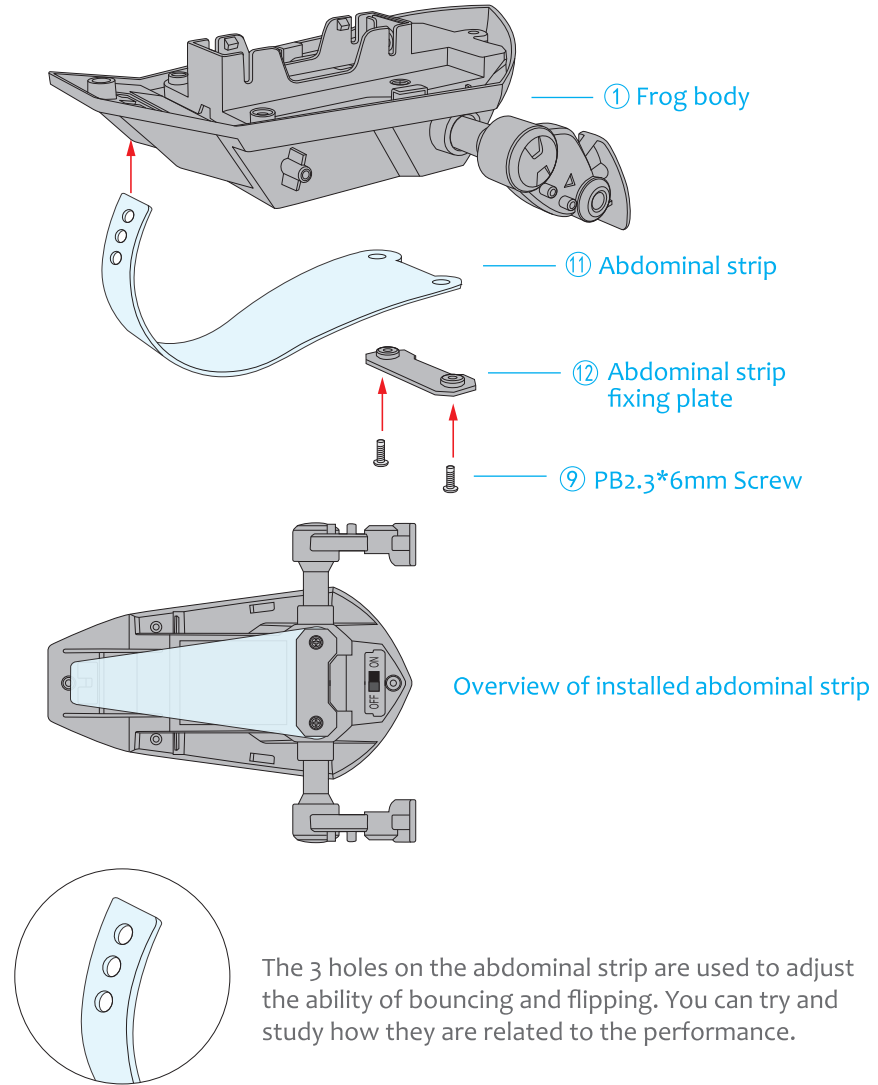


Battery
1 x AA (1.5V)

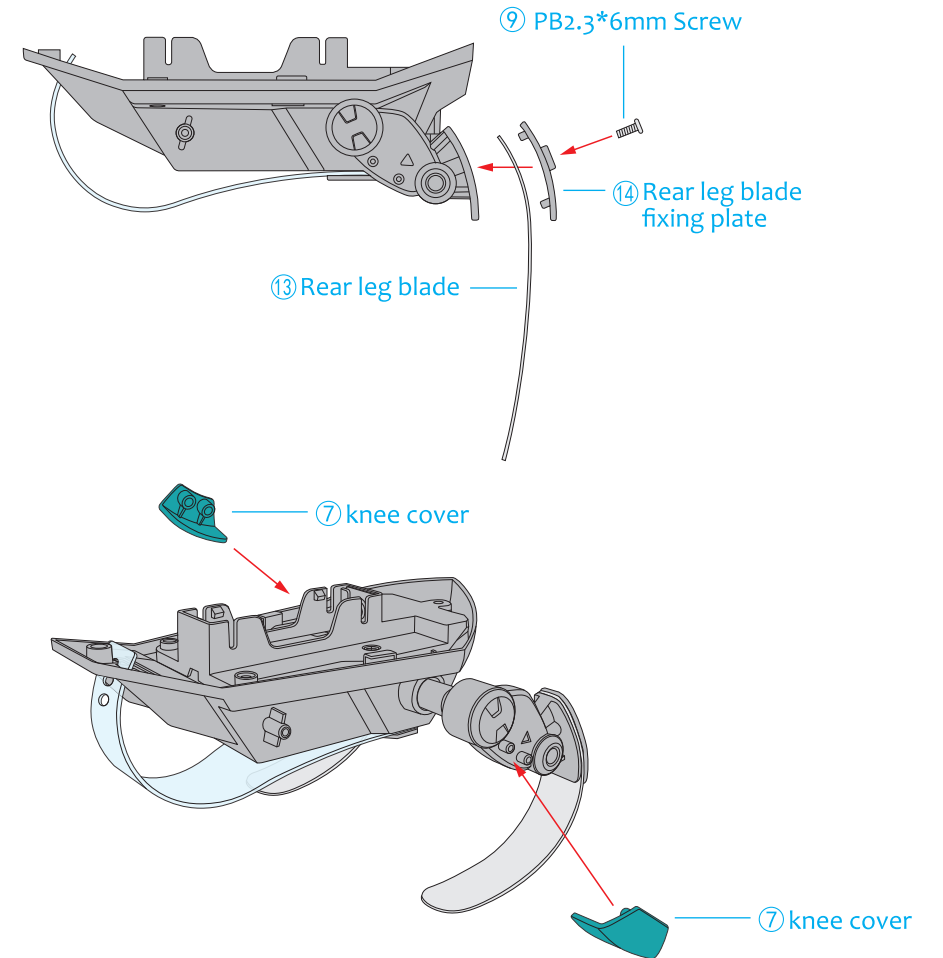
3 | INSTALLATION



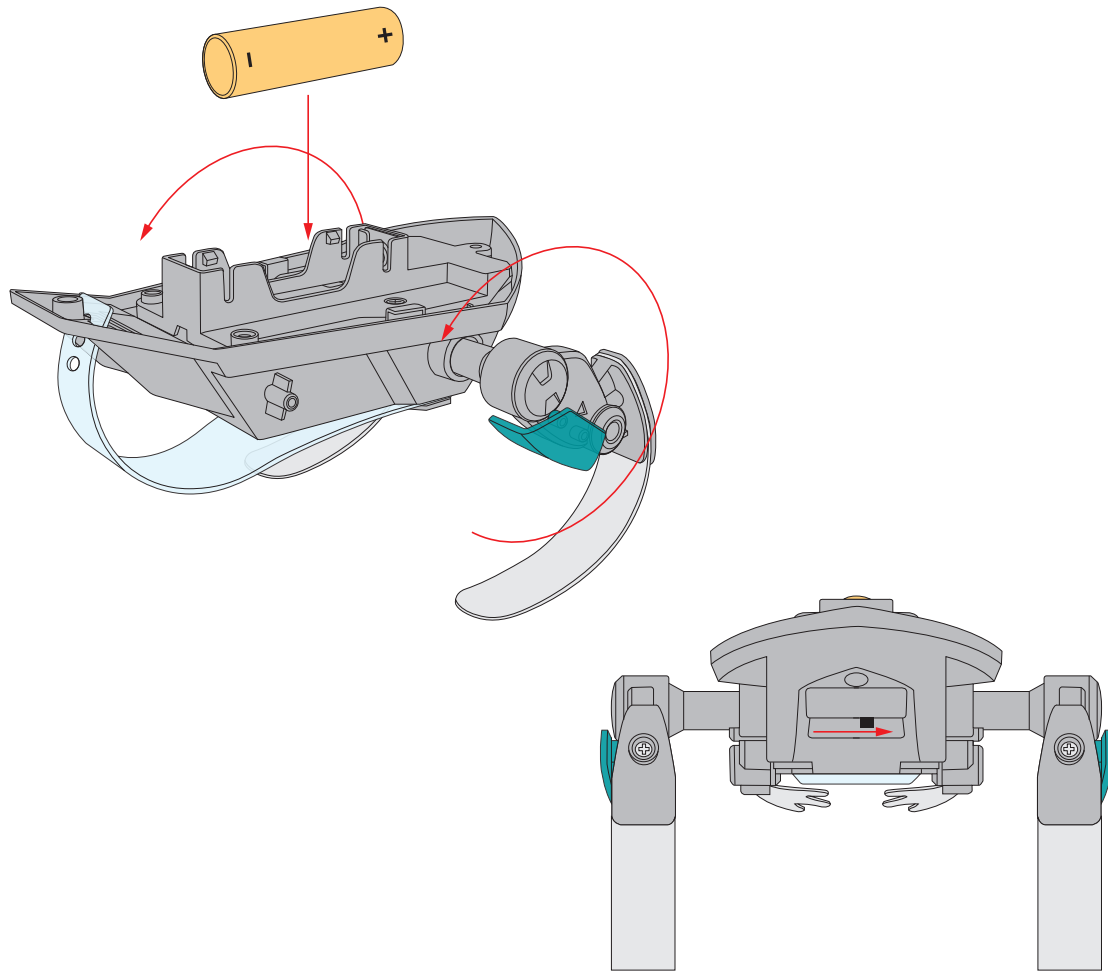
- 1** Attach the abdominal strip to the bottom of the the frog body and fix it in place with the fixing plate as shown.



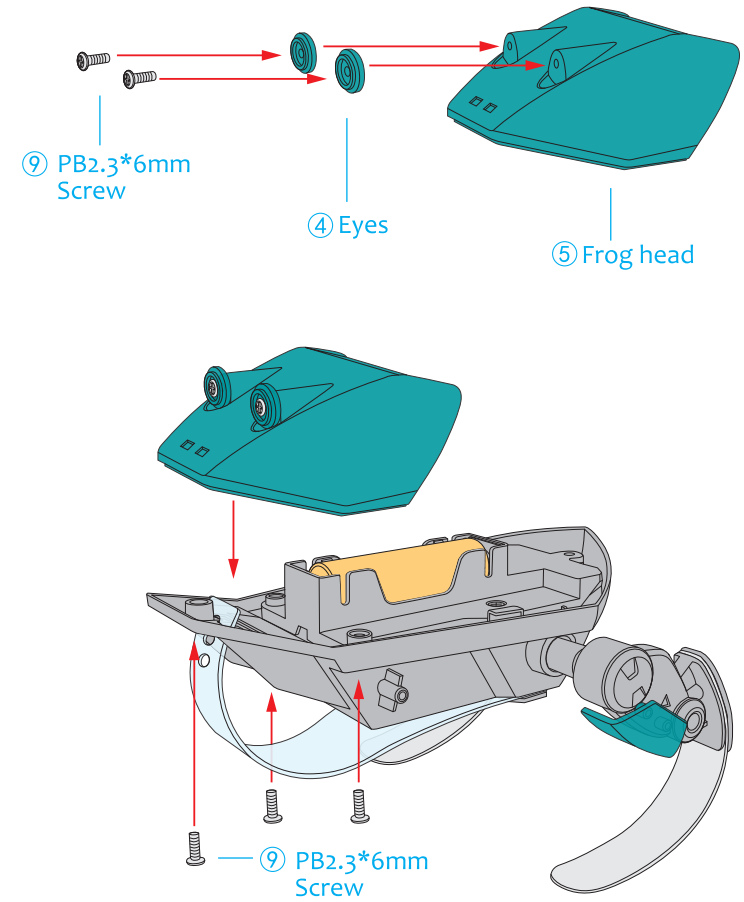
- 2** Buckle the rear leg blade into the rear leg blade fixing plate and attach it with a screw to the frog body as shown. Then buckle the knee cover (pay attention to the direction).



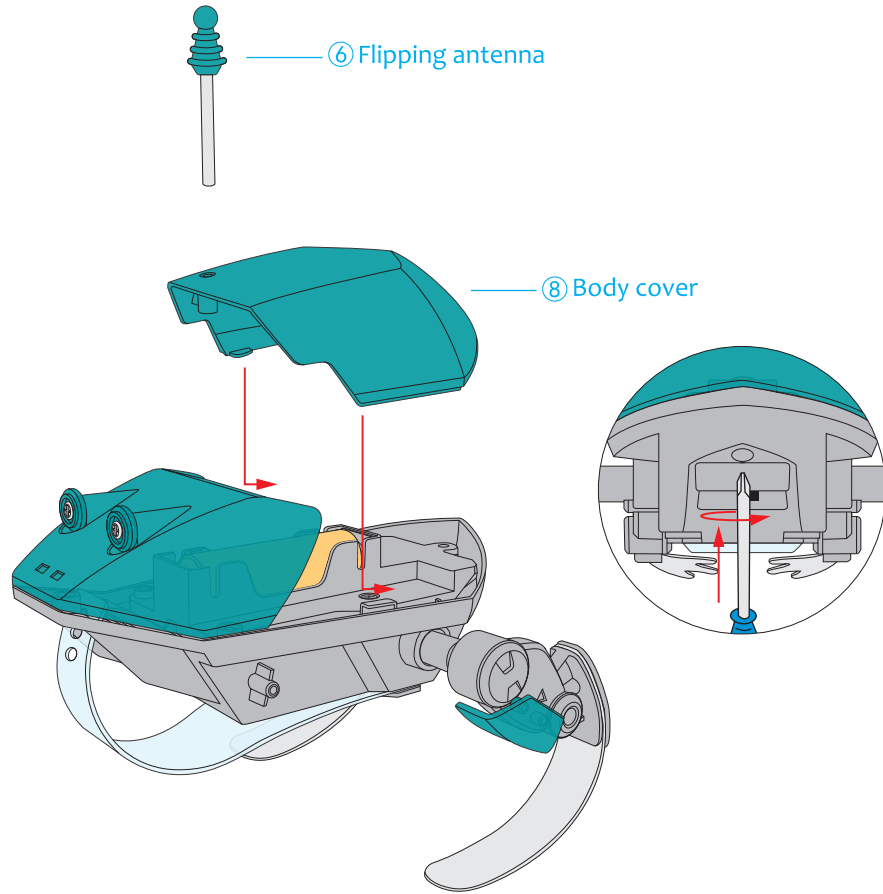
- 3** Install the battery correctly according to the battery polarity. Switch on the frog. The rear legs should start rotating, confirming correct installation.



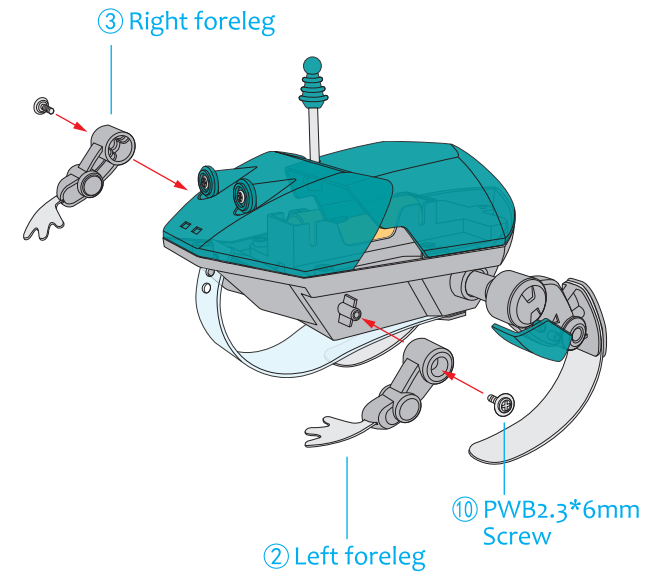
- 4** Using screws, fix the eyes onto the frog's head. Buckle the head into the frog body and attach it with a screw as shown.



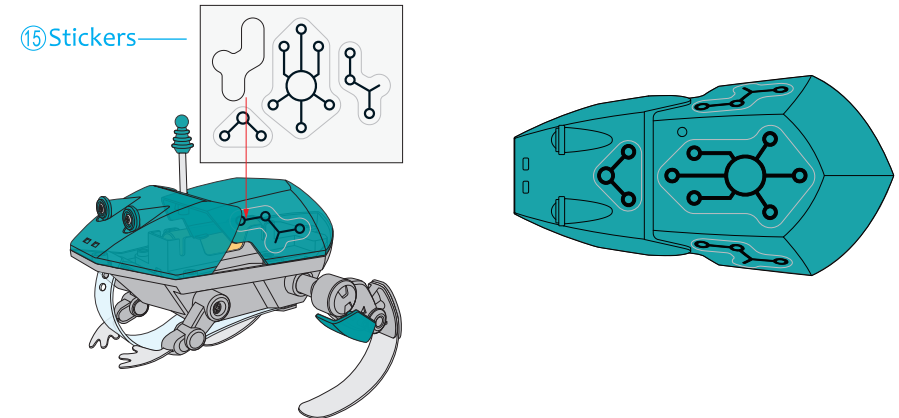
- 5 Buckle the body cover into the frog body and screw it from the bottom. Then insert the flipping antenna.



- 6 Insert left and right forelegs into both sides of the frog body and fix them with screw.



- 7 Decorate the frog with the stickers.



4 | *ACTIVITIES*



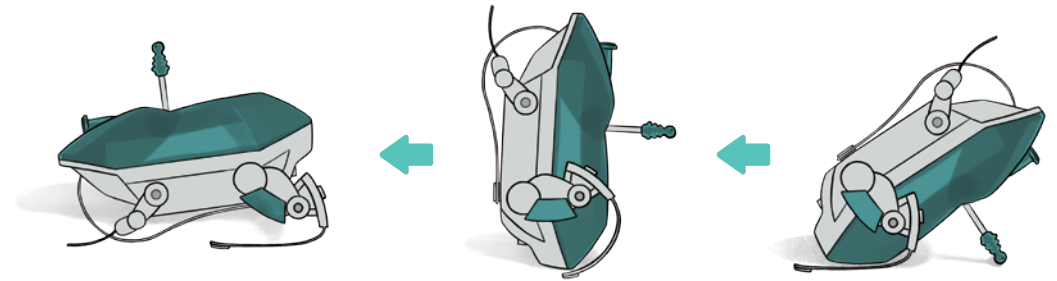
PLAY • READ • INSPIRE



What does it do?

Assemble it following the instructions and turn it on. The frog will hop no matter the terrain.

If it encounters an obstacle, it will turn over and always get back up on its feet.

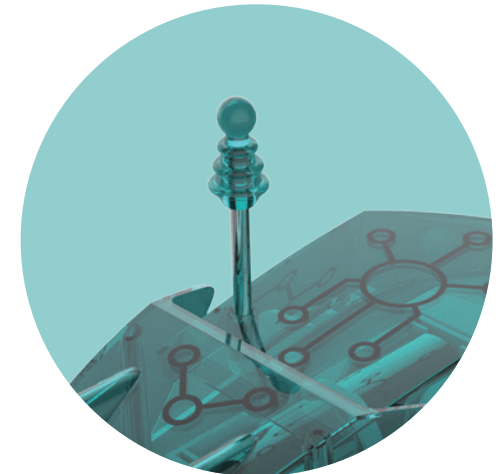
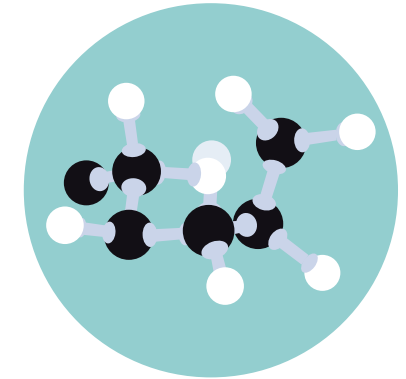


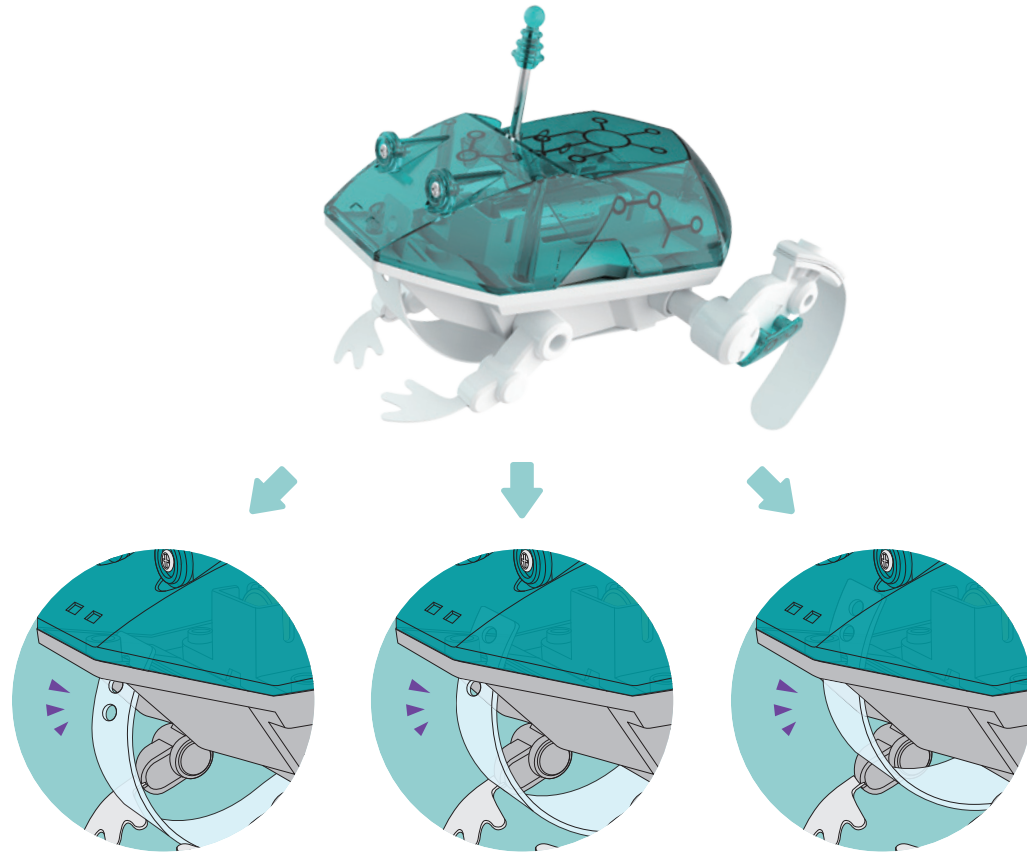
How does it work?

The blade shaped robotic legs are specially designed in a material called a "polymer", a soft but strong kind of plastic.

The shape of the legs and the properties of the material allow your frog to hop in any situation.

The antenna on its back will prevent your frog from getting stuck on its back.

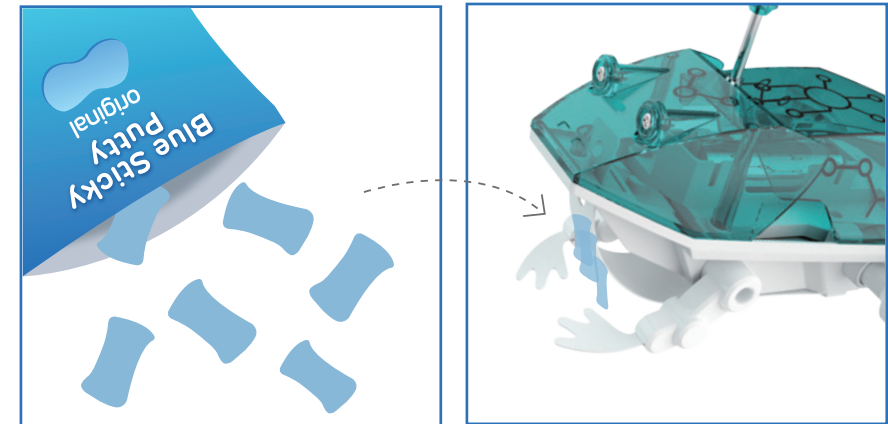




The abdominal strip has two main functions. The first one is to make the frog bouncing when it touches the floor. The second one is to balance the "Center of Gravity".

The center of gravity of an object is where most of its mass is concentrated. When choosing a hole to fix the abdominal strip, you will shift the center of gravity back or forth.

Try the three holes to see the difference. Then try to add some weight to the strip to see how it affects your frog's ability to jump.





Train your frog!

You can try to make your frog climb some obstacles. Place a book in front of it and see how it reacts. You will probably notice that it cannot climb high obstacles, and might need several tries before succeeding. Try your frog and learn its limit.





Read to be inspired!

Blade shaped legs are now used to make prostheses for injured people who lost one or both legs. It was noticed that people with these prostheses can run faster. They are even prohibited in some races.

Read to be inspired!



Do you know that frogs don't drink?

While they mostly live water, frogs don't drink as we do. They absorb water through their skin in an area called the "drinking patch" located on their belly.

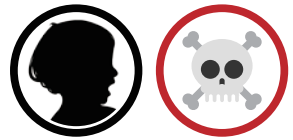




Read to be inspired! 

Some frogs are highly poisonous. Their skin is covered with a very toxic poison that can kill if ingested. Some of them were even used by Native American tribes to poison blowdarts.

POISONOUS



VENOMOUS



Read to be inspired!

Do you know the difference between poisonous and venomous? Venomous animals have a delivery method for the poison, such as fangs or spines, while poisonous animals do not.

