TOGO
# SCIENCE

## FUN FACTS

The English word "helicopter" is adapted from the French word "hélicoptère".

PLAY STEAM®


**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.

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# LEARNING BOOKLET

## Band Powered Copter - Tales

0-3

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

AGES 5+

# ⚠ 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 5 years of age. CHOKING HAZARD - Small parts, not for children under 3 years.*

*Children should have parental supervision when assembling the product.*

*This kit is intended for outdoor use.*

*Please clean the product with a clean cloth when necessary.*

*WARNING: Please keep a safe distance from the high-speed rotating propeller to avoid the risk of wound and cut.*

## Package Contents

- Princess *(figure A)*

- Flower Fairy *(figure B)*



- Blades

- Transparent rubber band

- Plastic lever

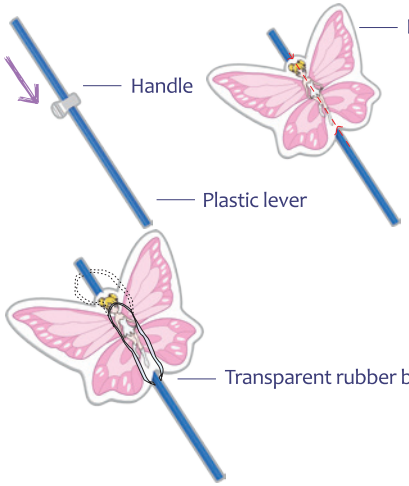
- Handle

- Head

- Tail hook

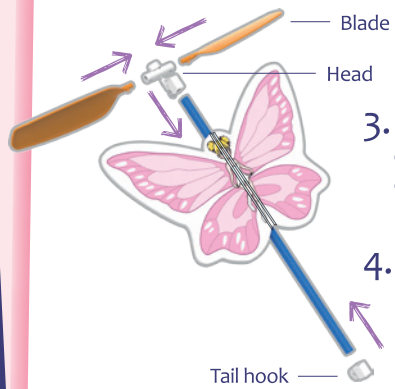
- Rubber band

## Installation steps



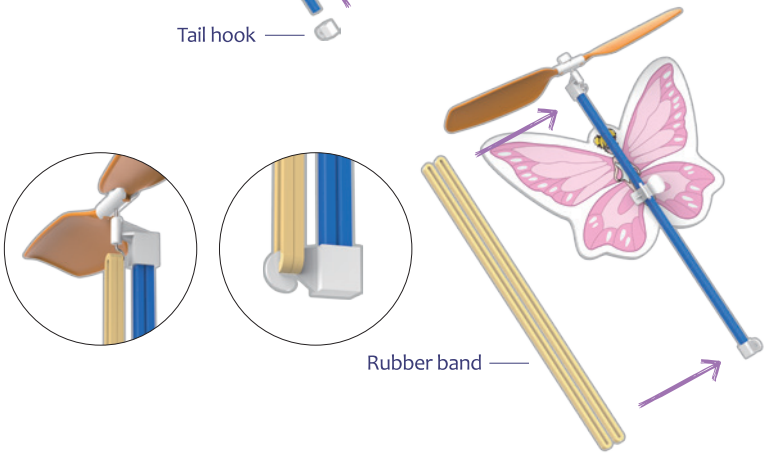

1. Slide the handle in the plastic lever according to the figure, and position the character on the flat side of the handle.

2. Tie the character to the lever using the transparent rubber band.




3. Install the head with the blades at the top of the plastic lever and the tail hook at its end.

4. Hook the two rubber bands, one end to the tail hook, the other end to the head.



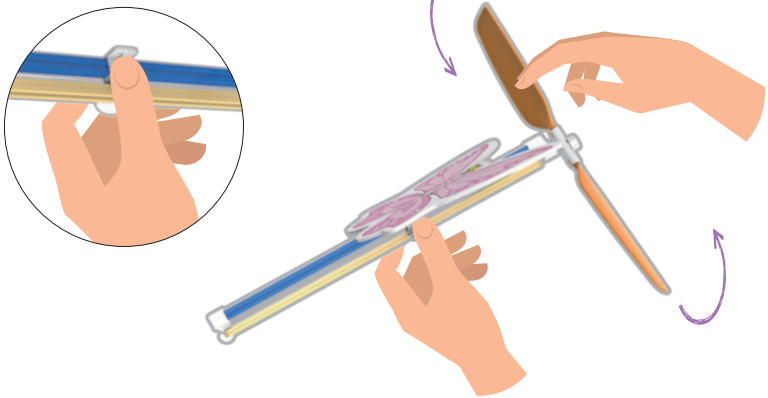

## Installation inspection

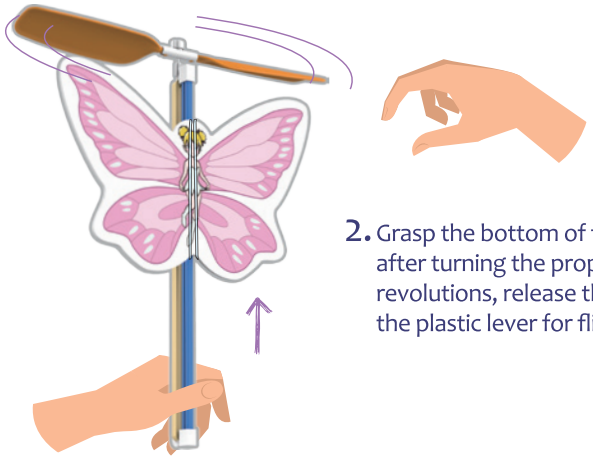
Correct installation



## Flight release actions

1. Grasp the handle with a hand, and rotate the blade clockwise with the index finger of the other hand (about 50 to 100 revolutions).





2. Grasp the bottom of the plastic lever, after turning the propeller 50 to 100 revolutions, release the propeller and the plastic lever for flight.


# What does it do?

The copter is an easy-to-build, rubber band-powered helicopter science toy.

## It soars!

Once wound up and released the Copter will soar in the sky with the help of its propeller shaped as a real Helicopter one.

Learn and experiment the science of the Copter. Try different level of winding to see how it affects the performances of the Copter. Discover who invented the first helicopter and how it is used nowadays.

# How does it work?

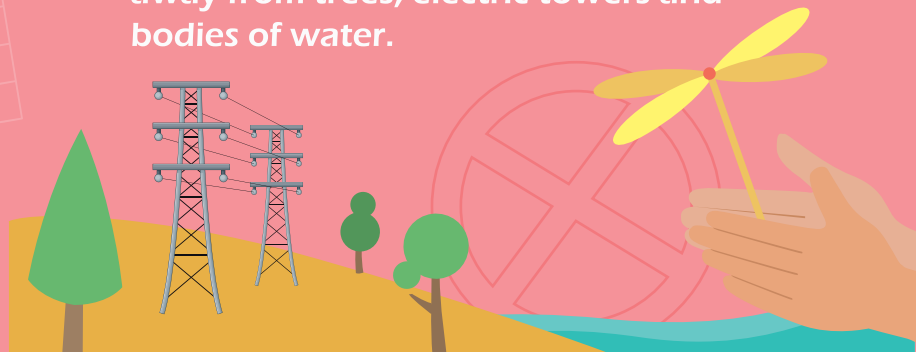
A helicopter is an aircraft lifted by a propeller fixed on a rotor. It takes off and lands vertically, which is suitable for congested and isolated areas, since no runway is required.

## The heights to which

it soars depends on the energy provided. Try winding the propeller 50, 100, even 150 times and see how it affects the altitude it reaches.

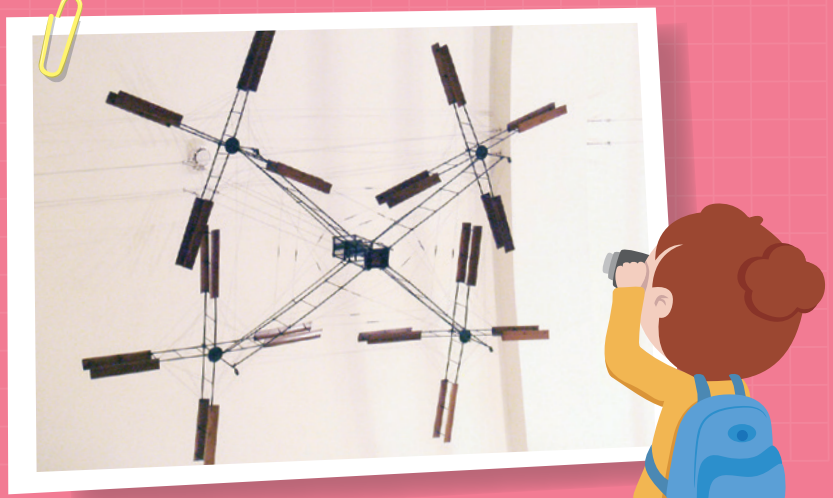
## In an outdoor environment

the wind will affect the flight direction. Please be sure to launch your copter away from trees, electric towers and bodies of water.



## FUN FACTS 01

**In 1907**, two French brothers, Jacques and Louis Breguet, experimented with a prototype helicopter, the Gyroplane No. 1, which lifted its pilot into the air only about 0.6 meters (about 2 feet).





## FUN FACTS 02

**Helicopters** can be used to fight fires by carrying tanks or buckets filled with water or fire retardent.