

Science 
MAD!

Science 
MAD!

**Rocket
Science**

**Rocket
Science**

WARNING! Do NOT aim at eyes or face.
Never aim rocket at people or animals.



www.trendsuk.co.uk

Distributed by Trends UK Ltd,
Harwell Innovation Centre,
Curie Avenue,
Harwell Oxford,
Didcot, OX11 0QG. UK
Email: trends@jgdirect.net

 **Customer Services:**
+44 (0)1702 208175



Please retain the information in this manual for future reference.

Colour, designs and decorations may vary from those shown in the photographs. Printed in China.

AGES 8 AND UP

Item No. SM18

**Everything
you need to
launch 3 foam
rockets into
the sky!**

Instructions



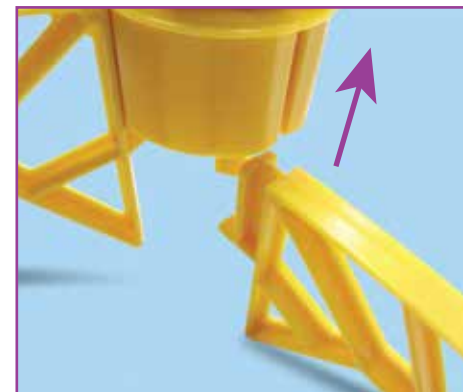
Contents

- 1x launcher & hose **PART A**
- 3 x base legs **PART B**
- 1 x air pump **PART C**
- 3 x foam rockets **PART D**
- Instruction manual

Assembly

STEP 1:

Insert each base leg (PART B) into the yellow slots located at the bottom of PART A. There are three legs in total.



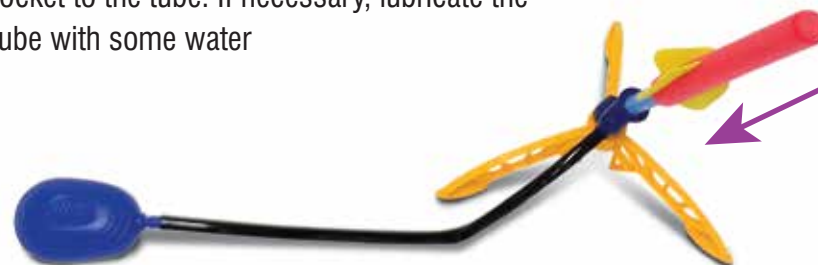
STEP 2:

Insert foot pump (PART C) into the black tube which makes up part of the rocket stand (PART A). You now have a completed rocket base launcher.



STEP 3:

Gently slide a foam rocket (PART D) on to the blue launch tube on PART A. DO NOT slide the entire length of the rocket on to the launch tube – it is only necessary to fit approximately 1 inch (2.5cm) of the rocket to the tube. If necessary, lubricate the tube with some water



STEP 4:

Using your foot, apply pressure to the foot pump (PART C) and watch your rocket fly up to 20 metres high!

Note that the angle of the launch tube can be adjusted to change the direction in which the rocket flies. Suitable for ages 8+.



Safety Information

Adults should always supervise children playing with the rocket. Always ask permission before retrieving rockets from private property. Always set up your launch pad on a flat surface away from trees and buildings. Read and follow the instructions for assembly and rocket launching in this manual.

- WARNING! Do NOT aim at eyes or face. Never aim the rocket at people or animals.
- NEVER attempt to catch the rockets.
- Make sure onlookers are a safe distance away from the launcher.
- Do not modify or add anything to product.
- Throw away any damaged or broken rockets.
- Do not launch rockets near ponds, lakes, rivers or other large bodies of water, or near roads.
- Do not lean over rocket while launching.



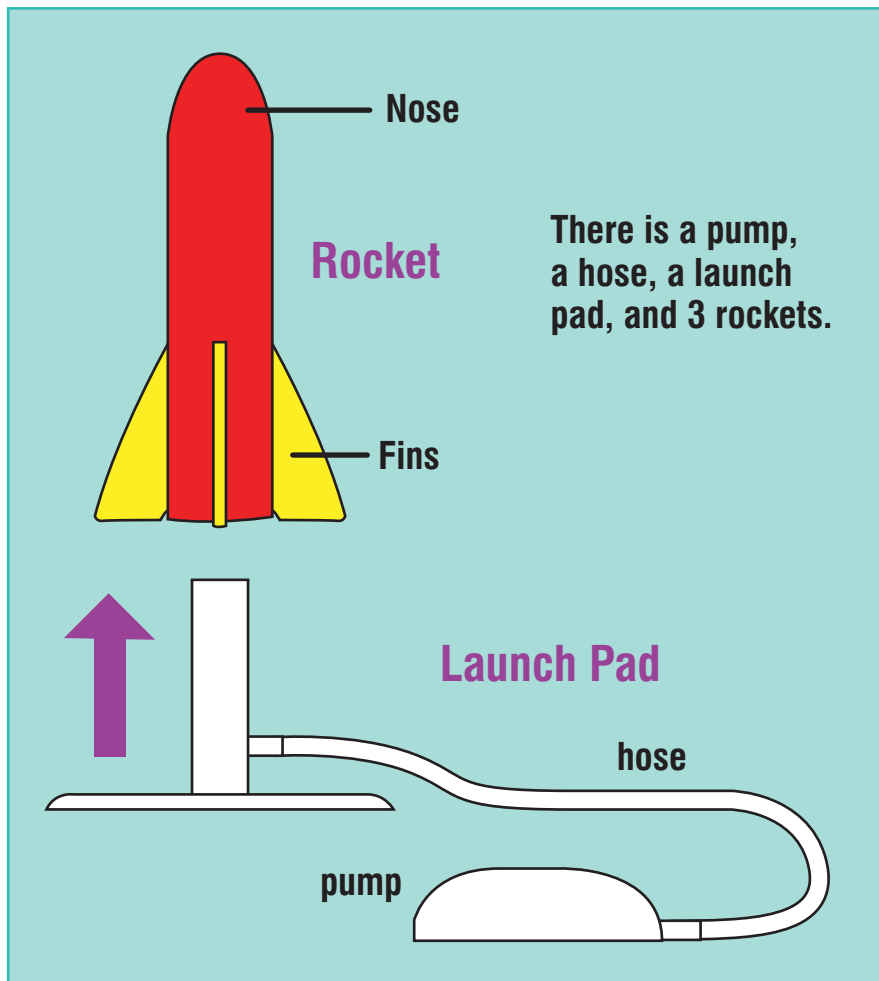
Now let's launch

Find a suitable area to launch your rocket. This should be a flat, wide open area away from trees, power lines, roads, and open water (lakes, water etc.). Make sure the launcher is stable and the launch tube is pointed vertically (up).

To launch, stamp your foot on the pump, or jump on it with both feet for extra power!

If the rocket does not fly in a straight line, you may have to straighten the yellow fins on the side of the rocket.

How does your Rocket get into the sky?



You have an air powered rocket which is subjected to the same forces in flight as a plane; gravity (or weight), thrust, lift and drag.

Weight affects flight, as the lighter something is, the higher it should go – which is why the rockets in this kit are made from foam.

The rocket works by using the compression of air to propel it upwards.

When you set up your rocket for launch the air pump is attached to the launch tubes via the hose. There are three stages to blast off!

1. When the rocket is attached to the launch pad tube this tube becomes sealed (meaning that the only escape route for the air is out of the bottom of the rocket).
2. Air coming from the pump is accelerated into the tube and compressed.
3. This compressed air escapes from the rear of the rocket forcing it upwards.

As soon as you step or jump on the air pump more pressure is put on the air inside and it is forced out at speed. So...air has pushing power!

