

# FANTASTIKO

## CIRCUS SCIENCE

**Thinking about the forces in every day (and Circus) life, plus a few extra strange science facts!**

Feats of juggling, spinning and balancing to astound and amuse, with lots of participation.

Why do objects fall, slow down, speed up, change direction or remain balanced? Within the sessions Fantastiko explores all of the concepts required for KS1 & KS2 'Physical Processes' and a little more besides. Using practical examples, observation and experiment, we help the pupils gain a better understanding of 'Forces & Motion'. They are actively encouraged to participate and give their own observations and conclusions.

If there is room we can incorporate our small free standing Aerial rig to demonstrate with an actual (possibly volunteer) body in a bungee harness!

The circus science sessions are designed to introduce students to the idea of forces. Putting names to what they experience and getting them to start thinking about it from a scientific angle.

### **Areas covered include:**

**Simple forces:** pushing, pulling, action and reaction, gravity, friction, speeding up, slowing down and changing direction.

*Demonstrated by throwing, catching and various exciting circus skills as well as the possibility of an aerial demonstration.*

**Centre of Gravity (balance point), air resistance, springs, gyroscopic motion and even the speed of sound** are also brought into the mix to explain why some things behave the way they do. Whilst these are outside the curriculum objectives, they are still experienced everyday and can be explained at a simple level.

The students are encouraged to explain what is happening and also guess the what might happen next as well as actually having a go at some of the skills themselves.

Sessions can be from 45 minutes to an hour as well as an assembly show (where we might use the rig) with lots of audience participation.

There is a teachers pack and guide as well as links to other useful resource materials available as well.

*Please note that there will be less time learning skills than in our circus workshops, which make an excellent follow up (or prequel) to the Circus Science sessions.*

### **CONTACT US ON**

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