



## Brief Description

To experience an adrenaline rush during an airborne ride in a safe environment :-

- To simply enjoy a shared experience with classmates,
- To provide raw data for time and distance graphs, geometry and data management and processing workshops.
- To appreciate individual differences between confidence levels, risk taking, comfort zones and personal action planning and development aspirations

## PSHE and Wider Learning Outcomes

- Build stronger relationships,
- Better understand risk and safety systems,
- Increase self-esteem and confidence,
- Increase awareness of respect for others and learn tolerance through appreciation of the diversity of comfort zones and appetite for adventure and risk taking
- Assess risk and consider consequences

## Session Objectives

By the end of the session, students will:-

- Learn to understand the need for and develop skills to don personal protective equipment & make links to anatomy & physiology
- Learn to climb a ladder, work off the ground & make links to work
- Understand gradient, resistance and friction, velocity – distance / time
- Learn about their own appetite for adventure, risk and curiosity levels.
- Have fun

## National Curriculum Outcomes

### Forces

- explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- identify the effects of air resistance and friction, that act between moving surfaces
- recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

## Progression / Differentiation

There are options to make zip lines shorter and closer to the ground, by eliminating a ladder climb. Also to reduce the velocity along the wire.

There are options to convert the experience into a science experiment by considering measurements and units of velocity, establishing variables and making comparative analysis between different wires and introducing resistance.

## Vocabulary

Gravity, friction, lever, velocity, impede, curiosity, risk, commitment, reassurance,