

## K'NEX BUILD CHALLENGE

**Session Brief | U KS2**

**(30 mins)**

In this exciting workshop pupils find out some of the science and mechanics behind rollercoasters through a series of fun k'nex challenges!

### Session Content

- How rollercoasters work-energy and gravity with k'nex loop experiment.
- Working scientifically to test and record results.
- Work in teams against the clock to solve the puzzle.

### National Curriculum Links

- Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.

### Pre-visit

- Pupils could build a marble rollercoaster using cardboard tubing, masking tape and experiment with the different forces—looking at decreasing friction, increasing gravity.

### During visit

- Take photos of the rollercoasters in action.

### Post-visit

- Annotate the rollercoaster photographs with the different forces acting upon them.
- Improve on their marble rollercoaster using new knowledge gained while at Drayton Manor Park.