



SCREAM

LOUDER

THE SCIENCE OF ROLLERCOASTERS

POST-VISIT

LAUGH

HARDER



ANSWERS: AVERAGE SPEED ACTIVITY

Name	Track Length / m	Ride Duration / s	Average Speed / (m/s)
THE SWARM	775	125	6.2
Storm Surge	213	255	0.8
SAW – The Ride	700	100	7.0
Stealth	500	24	20.8
Colossus	850	90	9.4
Nemesis Inferno	750	90	8.3
Tidal Wave	850	120	7.1

DESIGN A ROLLERCOASTER: SUCCESS CRITERIA

- Work as a team – suggested group size 4 people
- Name your ride
- Produce a two minute presentation about your ride
- Use PowerPoint if available
- Write a script so that you know what you are going to say
- Everyone in the group must be involved
- Make a working model of your ride
- Aim to include one 'loop the loop' in your ride after a drop near the start
- Include data about your ride e.g. track dimensions, track length, speed, duration etc
- Describe the energy transfers in your ride
- Describe the forces in action in your ride
- Be creative!

The team that best meets the ride criteria is the winner.

