

SCREAM IF YOU WANT TO GO FASTER!



Home Learning Missions

1 star

- Research online to find information about roller coasters from around the world. Which is the oldest? The longest? The scariest? Record your results in a table.
- Explore your home and the surrounding area to look for machines, toys and other objects that use cams, gears, levers and pulleys. Take photos and create a montage of all the different mechanisms found.
- Make a loop the loop using flexible track. Modify the track until a marble or toy car can successfully make it round the loop. Challenge other family members to get the marble or car to fly off the end and land in a pot by changing the trajectory. Keep a tally to show your success rate.
- Research and write a biographical account of Walter Elias Disney, animator and entrepreneur. Find the location of Disney theme parks around the world.
- Find a poem about fairgrounds or theme parks. Copy it out and try to learn it off by heart. Extra: recite it to a friend or family member in a clear, expressive voice.

2 star

- Plan a trip to a local theme park for your family. Calculate how much it will cost, how long it will take to get there and write an itinerary for the day.
- Make a flipbook animation of a roller coaster ride that includes a loop the loop.
- Become a pendulum on the swings at the park. Swing as high as possible and time how long it takes for you to slow down and stop completely. Time friends and family then identify patterns in your results. Do heavier people slow down more quickly?
- Research which fairground rides and attractions hold official Guinness World Records. Make a list along with the record. Pick a top five from the ones that impress you the most. Try and justify your choices.
- Imagine you are riding a roller-coaster (you can find video clips on YouTube). Ask a family member to capture your facial expression on a camera. Use this image to draw your own portrait whilst sitting on the ride. You could imagine particular points such as your facial expression before the ride begins, during the ride or when it finishes.
- Try and research what happened to any theme parks during WW2. Were any destroyed during the air raids? Were they allowed to stay open? What could have been the reason they closed? Do you think they were necessary during WW2?

Galaxy

- Research the history of fairground rides, and create a PowerPoint presentation that includes information, timelines, pictures, film and sound clips.
- Use the web to investigate mathematical data about a range of different theme park rides. Find information such as the ride's length, g-force, type and height. Use your data to create spreadsheets or charts, then interpret and find relationships and patterns.
- Use a technical construction toy, such as Lego Technic, Meccano or Fischertechnik to make a simple crane or beam crane with pulleys and nylon twine. Use a force meter to see how much force is required to lift a mass using different numbers of pulleys.
- Analyse and compare the websites of the UK's most popular theme parks. Take the role of a web analyst and produce a report on how user-friendly the sites are, including how easy they are to navigate and whether they provide enough information about the park's rides, how to get there, prices, facilities and rides suitable for children under 12 years old. Provide a recommendations that will help improve the websites.
<https://www.thorpepark.com/>
<https://www.adventurewonderland.co.uk/>
<https://www.altontowers.com/>
<https://www.chessington.com/>
<https://www.legoland.co.uk/>
<https://www.draytonmanor.co.uk/>
- Create a new advert/poster for one of the websites you researched. Include opening times, prices and images which will grab the reader's attention.