

Year 5 Topic Web – Summer 2 – 2021

Scream Machine



	What we will be covering in class	Supporting your child's learning at home
Engage	Roll up, roll up! You're going on an imaginary day trip to a theme park to soak up the unique sights, smells and sounds of the fair. Children will begin to learn about the science behind roller coasters; investigating how ride mechanisms work, exploring what forces are at play, and will be looking at how rides affect their bodies.	Explore and discuss the history of theme parks and fairgrounds – how long have they been around? When did they first start to attract visitors?
Develop	During this stage of the topic, children will explore and create a narrative on the perspective of a rider – what they are saying or thinking when on a roller coaster, while they are exploring its twists, turns and loops. Children will explore, create and advertise their own inventive sign for a rollercoaster ride. Year 5 will be working together to gather information about the structures and materials used to create strong and safe mechanisms. They will test out their ideas with several experiments, such as a 'loop the loop track with marbles' and a drenching 'water bucket swing' investigation.	Can you find out where the oldest amusement park is and just how long it has been around? Did you know that wooden rollercoasters rarely go upside down, unlike steel rollercoasters, but can you find out why that is?
Innovate	Children will design a new and 'egg-citing' drop ride that gives riders the hair-raising sensation of falling from a tall building. Together, children will become our very own engineers and will design a model ride that; can carry two people, in a single carriage, uses a cam, pulley or gear mechanism and includes safety features that protects the riders. Children will create a working prototype, with a range of evidence that proves it can protect two kinder eggs from breaking on the test ride.	Talk to each other about forces. Can you think of g-force and acceleration examples?
Express	At this stage, Year 5 children will be gathering and collating all of their learning so far to plan, design and create their very own, class, non-fiction book about theme parks and fairground rides. Children will start to evaluate their 'egg-citing' drop ride and reflect on its achievements and challenges.	Continue to support your child's mental maths skills by helping them to practise their multiplication facts and number facts.

