



Roll up, roll up. Learn about the science behind roller coasters and write poems that are shaped as a loop the loop. Design a theme park and show your ideas on a digital map. Time for some mini investigations. Cam mechanisms, pendulums, pulleys and prototypes. Let's go behind the scenes to see forces at work. Good news. The engineers at 'Scream Towers' love your work and want you to build a death defying new drop ride for their theme park. Cracking stuff. Okay, ready to ride? Don't forget to scream if you want to go faster.

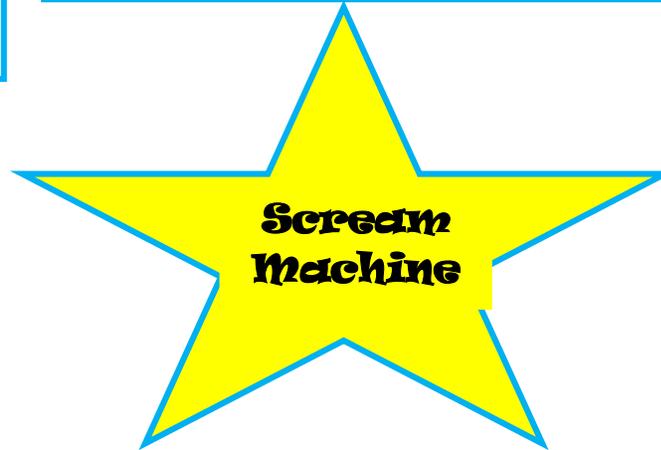
**Maths:** Following Maths No Problem we will begin with position and movement. Children will then move onto measurement where they will be converting units of length, mass and time. Children will also study area and perimeter where they will calculate the area and perimeter of different shapes.

**Computing:** Databases. This term, children will learn what a database is and how one is organised. They will research and answer questions using a pre-made database and then have the opportunity to create their own using Purple Mash.

**English:** This term the children will study poetry, stories with dialogue and adverts. The children will learn how to write a linear poem based upon a ride at a theme park. Our narrative work will focus heavily on dialogue, speech punctuation and maintaining a balance with description in the story.

**Art:** We will look at a range of Charles Darwin's detailed drawings of insects and creatures. We will talk about the visual elements evident in Darwin's work and then draw our own minibeasts in the same style. Children will also create a mixed media collage on the theme of metamorphosis. Use printed images, photographs, rubber stamps, newspaper, ink washes, water colour, and experiment with enlarging, photocopying, repetition, scale and colour to create an original piece where each stage of a minibeast's life cycle is represented.

**Design and Technology:** Children will design and make a house for minibeasts.



**Science:** Forces: Children will investigate different forces that act on rollercoasters! They will have the opportunity to investigate pendulums, centrifugal forces, pulleys and levers. They will plan investigations, write methods, discuss variables and present findings using a range of graphs and tables.

**RE Islam:** We are studying the religion of Islam. This includes the impact of Muhammad (PBUH) on the establishment of Islam, the importance of the Qur'an, how Muslims feel about the Qur'an, the lessons we can learn from the stories in the Qur'an and the Five Pillars of Islam.

**Physical development:** The children will master bat and ball skills in cricket, learn basic tennis skills including forehand and backhand and practice various athletic skills ready to compete, e.g. long jump, hurdles and relay.

**PSHE Relationships:** This half term we are looking at our personal qualities and how to boost our self-esteem, how to be a good member of our community, whether local or online, how to spot when you are spending too much time on a screen, how to act responsibly on social networks and how to behave responsibly in an online gaming environment.

**Geography:** Theme parks around the world. Children will use online maps to research world theme parks-where they are located and various interesting facts about them. They will plan a journey to the theme park and then plot their route around using coordinates and map keys. Spanish: Children will continue to practice their oral skills in Spanish. This term we will be focusing on talking about what they like, activities they participate in and reading a traditional tale in Spanish.