



Southill Primary School

Year 5 Spring Term 2022

# Scream Machine

Roll up, roll up. You're going on a day trip to a theme park, to soak up the unique sights, smells and sounds of the fair. 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. Make a working model and test it out with uncooked eggs. Cracking stuff. Okay, ready to ride? Don't forget to scream if you want to go faster.

As **Scientists** we will be using our methods of enquiry to study types of forces and how they act in pairs and on objects to change the rate of fall and direction of movement. We will identify the effects of air resistance, water resistance and friction, that act between moving surfaces and we will recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. Finally, we will be conducting our own inquiries to ask and answer questions related to how forces act.

As **Writers** we will be developing our use of vocabulary and language features to create settings which really pull the reader into our stories. We will be exploring the underlying patterns, features and tools used in the warning tale *The Canal*, then planning, writing and editing our own warning tale.

As **Readers** we will read the joyfully life-affirming and fabulously fishy tale of Stanley, a young boy who leaves home to find his own way in life and joins a circus!



As **Mathematicians** we will be solving word problems involving all 4 mathematical operations. We will then read and interpret information in tables and line graphs, moving on to constructing line graphs that have more than one data set to represent. This will run alongside a continued effort to revise and refine our mental maths knowledge, especially recall of our times tables facts up to  $12 \times 12$ .