BE AN iMAGiNEER!

Name:	**Date:**

Your task is to apply your understanding of theme park rides and forces to design an interesting theme park ride that uses a variety of forces.

Science Assessment Standard

By the end of Year 4, students use contact and non-contact forces to describe interactions between objects. They complete simple reports to communicate their methods and findings.

Working towards *Expected Level* *Working beyond*

Criteria	**Result**				
Science					
Forces can be exerted by one object on another through direct contact or from a distance (ACSSU076)					
Identify and describes at least three forces					
Classify the forces as "contact" or "non-contact"					
Use force diagrams to represent their observations and communicate their ideas to others					
Explain how particular forces might be used in a theme park ride					
Design & Technology					
Investigate how forces affect the behaviour of a product or system (ACTDEK011)					
Exploring through play how movement can be initiated by combining materials and using forces					
Explains how different forces are used in a theme park ride					
Consider ways to use a variety of forces to make a theme park ride appealing to the potential riders					
Evaluate design ideas, processes and solutions based on criteria for success developed with guidance and including care for the environment (ACTDEP017)					
Providing relevant facts and descriptive detail in diagrams and explanations					
Evaluating the functional and aesthetic qualities of a designed solution					
General capabilities					
Personal and social capability					
Creative and critical thinking					