

Year 4 - Spring Term
Gravity, Galaxies and Galactic Grub!
Science and Technology

Essential Questions: How do forces affect me and the world around me? How can materials be changed for different purposes?



Why am I learning this?

To develop my understanding of our place in the solar system and how it affects our lives on Earth.

To understand the forces at work when a rocket blasts into space.

To understand how the motion of an object is affected by the application of force.

To understand how forces affect me and others.

To show how changes in materials affect their properties and uses.

To explain my understanding of what we have learned about how materials can be changed for different purposes.

My experiences as a learner

Hook: Planetarium visit to school

I will learn about how seasons change and about day and night.

I will know how to recognise some key points of the night sky.

How do you get to space?

I will describe the forces acting on an object using diagrams.

I will draw a diagram to show the forces in action on a stomp rocket.

I will investigate how the force I use will affect a stomp rocket.

I will understand that forces are pushes and pulls which affect an object.

I will investigate using items around the school, whether motions are push or pull forces.

I will explore the differences between life on Earth and in space which occur because of gravity and microgravity.

I will design and carry out an investigation to show how forces affect an object.

I will understand how food is changed to make it suitable for space travel.

I will experiment with hydrating and rehydrating food using my measure skills to help me.

I will work as part of a team to design a recipe for space food.

I will work as part of a team to make my own space food. Using my measure skills to help me.

I will design packaging for my space food and share it with others to find ways it could be improved.

I will create a pitch to introduce my space food and packaging and present it to an 'astronaut'