



Unit Premiere

Earth & Space

And we have LIFT OFF!

Heading to Outer Space isn't an extraordinary thing anymore! Our resident astronauts are going to suit up for a space flight to remember.

During our How the World Works unit of inquiry, students will learn about the influence Space has on our life on Earth. Did you know that the moon is visible during night and day? Or that the Sun doesn't really rise or set?

Our astronauts will learn about the theory of gravity and push and pull forces and test them with moon jumping and Frisbee throwing. We will design rocket ships and Space suits and test them on potato astronauts. Students will create dehydrated foods and experiment with weight.

This unit will surely be a BLAST!

IB Instructional Elements

Theme-

Our IB curriculum is comprised of six transdisciplinary units that have global significance and offers students the opportunity to explore human experiences.

- **How the World Works-** an inquiry into the natural world and its laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment
- **Lincoln Curriculum Connection-** Students learn that our life on Earth is affected by our Solar System.

Learner Profile

The Learner Profile is a set of attributes that, taken as a whole, lay the foundation upon which international-mindedness will develop and flourish

- **Knowledgeable-** They explore concepts, ideas and issues that have local and global significance. In doing so, we develop in depth knowledge and develop understanding across a broad and balance across of disciplines
- **Lincoln Curriculum Connection-** Students show what they can learn about Space
- **Inquirers-** We are curious and enthusiastic learners who enjoy research and inquiry.
- **Lincoln Curriculum Connection-** Students conduct experiments to test the law of gravity.

Key Concepts

Key Concepts are powerful ideas that have relevance within the subject areas but also transcend them and that students must explore and re-explore in order to develop a coherent, in-depth understanding.

- **Function-** The understanding that everything has a purpose, a role or a way of behaving that can be investigated.
- **Lincoln Curriculum Connection-** Students learn that everything in Space serves a purpose, some we may not understand without further study
- **Change-** The understanding that change is the process of movement from one state to another. It is universal and inevitable.
- **Lincoln Curriculum Connection-** Students learn how weather and seasons change based on Earth's location in Space.

Approaches to Learning

These skills are capabilities that students need to demonstrate to succeed in a changing, challenging world, which may be disciplinary or transdisciplinary in nature.

- **Thinking Skills-** Grasping meaning from material learned; communicating and interpreting learning
- **Lincoln Curriculum Connection-** By making connections to our How We Express Ourselves unit, students will bring an understanding of Earth's place in the Solar System.
- **Self-Management Skills-** Your choices are based on facts and opinions. You reflect before you make your choices.
- **Lincoln Curriculum Connection-** Students will display self-management skills by understanding how things take up space in the environment