



EPISODE TWO

SUSTAINABILITY

LESSON PLAN

Learning Objective

1. **Understand the concept of sustainability at SaxaVord Spaceport**
Students will explore how SaxaVord Spaceport protects the local environment and wildlife through sustainable practices.
2. **Learn how environmental monitoring works**
Students will investigate real-world sustainability strategies, including water testing and environmental planning.

Resources

- [*Fredo's Space Adventures – Episode 2: The Sustainability Mission*](#)
- Mission Patch Booklet (one per student)
- Printable Sustainability Mission Patch (one per student)
- Materials for activity.
 - 2 jam jars or water jugs - 1 full of water and the other empty.
 - A Spoon
 - Some Natural items like small pebbles, soil, sand, or leaves.
 - Kitchen Roll
 - Elastic Band

Introduction

- Begin with a class discussion about space and the space industry. Ask students:
 - What do you think “sustainability” means?
 - Why is it important to protect nature when building things like a spaceport?

Input and Activity

- **Step 1: Watch the Video**
 - Play *Fredo's Space Adventures – Episode 2: Sustainability?*
 - Pause the video at **4:15** and explain the upcoming activity.
- **Step 2: Water Filtering Activity**
 - Divide students into groups.
 - Distribute resources
- **Step 3: Resume the Video**
 - Once students are ready you can play and pause the video as Fredo guides the activity.

Plenary

- Support students in sharing their findings and reinforcing key takeaways.
- Once you have completed session distribute appropriate mission patch and get students to stick these into their Mission Patch Booklets.