



EPISODE FOUR

SAFETY

LESSON PLAN

Learning Objective

1. **Understand what an exclusion zone is and why it's important during a rocket launch**
Students will explore how SaxaVord Spaceport keeps people, animals, and aircraft safe.
2. **Learn how exclusion zones are planned using maps and radius tools**
Students will see how professionals calculate and plan safety zones.
3. **Use digital mapping tools to plan a zone of their own**
Students will carry out a practical mapping activity based on their school or home.

Resources

- [Fredo's Space Adventures – Episode 4: Safety](#)
- 1 device per child or per group
- Mission Patch Booklet (one per students)
- Printable Mission Patches (one per students)
- Link to a radius mapping tool ([Radius Mapping Tool](#))

Introduction

Begin with a class discussion about space and the space industry. Ask students:

- What do you think happens if a rocket goes off course?
- How do we make sure no one gets hurt during a launch?

Introduce the concept of **exclusion zones** – safe areas around launch sites where people must stay out until it's safe again.

Input and Activity

- **Step 1: Watch the Video**
 - Play *Fredo's Space Adventures – Episode 1: Why SaxaVord?*
 - Pause the video at **2:40** and explain the upcoming activity.
 - **Step 2: Distribute devices.**
 - **Step 3: Resume the Video**
 - Students will all need the link in the resources section of this document and once they have this you can play the video and Fredo will guide the class through 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.