



EPISODE THREE

# WEATHER

## LESSON PLAN

### Learning Objective

1. **Understand the purpose of Range Safety at SaxaVord Spaceport**  
Students will learn how the Range Team protects people, animals, and property during rocket launches.
  2. **Explore how weather, airspace, and seaspace are monitored before launch**  
Students will discover how launch decisions are made based on safety conditions.
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### Resources

- [Fredo's Space Adventures – Episode 2: Weather](#)
  - Mission Patch Booklet (one per student)
  - Printable Weather Mission Patch (one per student)
  - Materials for the weather vane activity
    - Piece of cardboard
    - Pencil with rubber on the end
    - A straw
    - A pin
    - Small lump of clay or Blu-Tak
  - Materials for rain monitoring activity
    - Clear Cup
    - Ruler
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### Introduction

- Begin with a class discussion about space and the space industry. Ask students:
    - What do you think a rocket needs before it can launch?
    - Who makes sure it's safe to launch?
    - Why might wind, waves, or clouds be a problem?
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### Input and Activity

- **Step 1: Watch the Video**
  - Play *Fredo's Space Adventures – Episode 3: Weather?*
  - Pause the video at **3:10** and explain the upcoming activity.
- **Step 2: Pause the Video**
  - Ensure that all children have the resources that Fredo lists for the activity.

- **Step 3: Resume the Video**

- Resume the video and follow along as Fredo guides the class. You may want to head outside after this and try out your new equipment!
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## **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.