

File name: VR_3T_LP6_EnvironmentalScience_Science_12

Topic: Environmental Science

Keywords: Fiji, climate change, sea levels

Suggested grade level: Grade 12

Estimated activity time: 15 min

Environmental Science – Science 12

Human activities and the global community

VR 360⁰ exploration: Climate Change in Fiji VR 'Our Home, Our People'

<https://www.youtube.com/watch?v=3-lvJLuvQ4>

General Introduction:

Doing a VR 360⁰ exploration/expedition is like going on a vacation or trip. You have to plan e.g. your destinations, places to eat, relax, and meet friends and family. It means identifying your objectives.

For teachers:

In this section, you will see a modified planning and preparation arranged into three (3) steps. As a teacher, these steps help you maximize the learning opportunities a VR 360⁰ exploration/expedition can potentially offer.

Three steps:

- 1) Pre-exploration: Preview the playlist exploration yourself. By doing this, you are identifying possible questions and activities that might enrich students' VR experience.
- 2) During exploration: Provide guide or key questions or ask the students to formulate new questions about the playlist and encourage students to refer to other resources (e.g., YouTube videos, articles, etc.) to connect and enrich the playlist.
- 3) Post-exploration: Follow-up on the new questions and wonders students have identified. These questions might lead to an interdisciplinary inquiry project, blog posts or short video clips to link with the original unit or chapter coverage.

Description:

In this 15-minute exploration activity, you'll see a 360° panorama of a Fijian community as it combats the impacts and threats of climate change.

“‘Vei lomani’ is a Fijian expression meaning ‘love in action’, and it is a value at the heart of Fijian life. And it is in the spirit of ‘vei lomani’ that Fijians are coming together to respond to the impacts of climate change. Experience the story of Catalina, Rai, Asmita and Rupeni in 360° VR, and explore more at www.ourhomeourpeople.com. ‘Our Home, Our People’ is best viewed with a VR headset and headphones.” Connect4Climate Published on Nov 9, 2017

Objective:

The core learning outcome of this playlist is to enrich students’ understanding of climate change by looking at how Fijians come together to respond to its impacts.

However, unlike a regular 2D video, this VR provides a 360° panorama, which allows your students to focus on different points of interest that might vary from student to student. So, take time to explore the playlist using different angles and positions.



Climate Change in Fiji VR 'Our Home, Our People'

Suggested Guide:

1) Pre-exploration:

How Fiji is impacted by climate change:

<https://unfccc.int/news/how-fiji-is-impacted-by-climate-change>

2) During exploration:

What key questions could pique students' interest as they watch this playlist?

As well, ask them to think of interesting questions they want to answer as they watch the playlist. Let them discuss these questions and their possible answers.

They can do this by groups of two or three.

With limited number of Google cardboards, let students work in pairs. Let them take turn to watch the playlist and do a Q & A. For example, Student 1 will describe to student 2 what he/she is seeing right now. Student 2 will explain the playlist, to Student 1 and each student will take turns doing Q & A.

3) Post-exploration:

Give time for the pair/class to think about the questions and answers they have generated after watching the playlist.

Let them recall experiences that might relate to the playlist e.g. early preparation and research before hiking on mountain ranges or active volcano or the hazards/effects of volcanic ash on aircraft.

Then invite them to read the link below. With the playlist, let them express their understanding, reactions into any interdisciplinary inquiry projects, blog posts, short video clips, etc.

Climate change impacts on Fiji: <https://unfccc.int/news/climate-change-impacts-on-fiji>

References:

https://edu.google.com/products/vr-ar/expeditions/?modal_active=none

<https://www.youtube.com/watch?v=3-lvJLuvQ4>

<https://unfccc.int/news/how-fiji-is-impacted-by-climate-change>

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