**File name: VR\_4T\_LP1\_Geology\_Science\_12**

**Topic: Environmental Science**

**Keywords: Monarch butterflies, Canada, migrations,**

**Suggested grade level: Grade 12**

**Estimated activity time: 15 min**

**Geology – Science 12**

**Minerals, rocks, and earth materials**

**VR 3600 exploration:** JOURNEY OF GOLD

<https://www.discoveryvr.com/free-vr-videos/journey-of-gold/>

**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 3600 panorama on a “Journey of Gold”.

“Every day you may hold a piece of the Congo in the palm of your hand. Not just used in banking and jewelry, gold can be found in many consumer and industrial products, including cell phones, health care equipment and even airplanes. But have you ever stopped to ask where it comes from? How it’s bought and sold? Or who are the people behind the product? Join us in “The Journey of Gold”, an experience exploring Nyamurhale, an artisanal gold mine in the Democratic Republic of the Congo (DRC).” Discoveryvr.com

**Objective:**

The core learning outcome of this playlist is to enrich students’ understanding of minerals, rocks and earth materials and particularly human activities and exploitation that go with gold mining.

However, unlike a regular 2D video, this VR provides a 3600 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.

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<https://www.dw.com/en/investigating-dr-congos-illegal-gold-trade/a-46997332>

**Suggested Guide:**

1. **Pre-exploration:**

Investigating DR Congo's illegal gold trade:

<https://www.dw.com/en/investigating-dr-congos-illegal-gold-trade/a-46997332>

1. **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.

1. **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.

Investigating DR Congo's illegal gold trade:

<https://www.dw.com/en/investigating-dr-congos-illegal-gold-trade/a-46997332>

**References:**

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

<https://www.discoveryvr.com/free-vr-videos/journey-of-gold/>

<https://www.dw.com/en/investigating-dr-congos-illegal-gold-trade/a-46997332>