Journey Through Google Expeditions

Tuesday, May 19, 2020

If you could go anywhere in the world right now, where would you go?
Google Expeditions can take you there!

Why should I use Expeditions in class?

Use Expeditions to:

- Provide context
- Create a shared learning experience
- Teach concepts and content
- Safely and cheaply explore phenomena
[Why should I use Expeditions in class?]

Expeditions naturally supports diverse learners:

- Auto-narrations
- Record your own narrations
- Add in pictures for vocabulary supports
- Supports reading comprehension
- Can be easily written in multiple languages
- Some pre-written expeditions already support other languages

[What’s in a name?]

Augmented Reality vs. Virtual Reality

**Augmented Reality (AR)**

- Bringing something into your own environment that isn’t actually there
- Ex. Placing the Rosetta Stone in your living room

**Virtual Reality (VR)**

- Exploring a different environment outside of your own
- Ex. Visiting Mars on your iPhone
Let’s explore!

Beautiful Biomes
https://poly.google.com/view/ajuYnrMbdQ

[How does this fit within the NGSS Framework?]

Depending on what content or concepts you include in your Expedition and how you plan for students to interact with the tour, you can use Expeditions at any point before, during, or at the end of a lesson or unit.
How does this fit within the NGSS Framework?

**Crosscutting Concepts**

- Patterns
  - Cause and Effect
- Scale, Proportion, and Quantity
- Systems and System Models
  - Energy and Matter
  - Structure and Function
  - Stability and Change

**Science & Engineering Practices**

- Asking Questions and Defining Problems
- Developing and Using Models
- Planning and Carrying Out Investigations
- Analyzing and Interpreting Data
- Using Mathematics and Computational Thinking
- Constructing Explanations and Designing Solutions
- Engaging in Argument from Evidence
- Obtaining, Evaluating, and Communicating Information
[What supplies will I need?]

To View Augmented Reality Expeditions you’ll need:

- Free App
- A Mobile Device
- Markers (printable)
- Selfie Stick (optional)
- Wifi for Downloads
**How does it work?**

To View Augmented Reality Expeditions

- Hold the device above a marker.
- Explore the object “live” or stamp the object into the environment.

**What are the benefits?**

Benefits include:

- Allows you to pinch-and-zoom
- Explore objects from all angles
- Spotlight parts of an object to highlight important structures
- Can have multiple of each marker around the room
- Can be free exploration or guided by teacher
- To laminate or not to laminate...
The Virtual Reality Experience

What supplies will I need?

To View Virtual Reality Expeditions you’ll need:

- Free App
- A Mobile Device
  - Phone/Tablet
  - Chromebook
  - Access to Chrome
- VR Goggles (optional)
- Wifi/Peer to Peer Connection
[How do VR Expeditions work?]

You can do free exploration or guided tours!

[What supplies will I need?]

To Create Virtual Reality Expeditions you'll need:

- Tour Creator
- Computer
- Google Street View
- 360 Camera
If you want to take your own 360 images, start in Street View app or take photos using a 360 camera.

Next you will log in to Tour Creator.
https://arvr.google.com/tourcreator/

You must create the tour online on your computer.

The user name is important!
Benefits include:

- Allows you to immerse yourself and your students in an environment
- Allows for multisensory experiences
- A guided tour will help students focus on what’s important and not just the “WOW! Factor”
- Add “layers” of information with photo Points of Interest

Let’s create!

https://arvr.google.com/tourcreator/
Do you have additional resources?


Google Expedition Planner and Tour Creator Story Board

Thank You for Attending Today!

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