

# WELCOME TO LENOVO VR CLASSROOM

The first all-in-one virtual reality classroom system that has the tools, content, and technology to provide effective hands-on learning.



**For information on your VR Classroom warranty and service in the U.K., please visit [support.lenovo.com/vrclassroom](https://support.lenovo.com/vrclassroom).**

Need help? We've got you covered with a VR Classroom expert!

- UK Premier Support 0800-9313119 or +44 20 3966 1868

Please have your Chromebook's serial number handy for reference when calling.

## Teacher Quick Guide



Lenovo Mirage Solo  
with Daydream



E300 Chromebook



**Key item: Once you have unboxed everything, please view tips and tricks at [support.lenovo.com/vrclassroom](https://support.lenovo.com/vrclassroom), and register for our monthly Professional Development webinar series to help you get the most out of your kit.**

## Basic Controls

Each Mirage Solo headset comes paired with a labelled hand controller.

### The hand controller:

- The controller has a touchpad that functions as a touchscreen and a mouse button.
- There is an “App” button below the touchpad with a raised minus symbol. The App button functions as a back button within apps only.
- Beneath that is the recessed Daydream button with “O” on it. This functions as a “home” button and also allows the headset view to be aligned and recentred when the headset is first put on.
- Volume controls are on the side.
- While trying out the headset, if you cannot see a laser pointer or if the laser is not straight, simply hold down the Daydream button for 3 seconds to reset.



**Key item: Be sure to go through the controller tutorial found in the Library section of the headset and ensure all students and teachers do this before attempting a VR lesson.**

### Tutorial:



# Preparing for Use in the Classroom



**Key item: The headsets and Chromebook come preloaded with the Google Expeditions field trips associated with the Tablet Academy lesson plans loaded on your teacher device. Additional field trips must be downloaded individually in advance when the devices are connected to the Internet. Lesson plans are located in the Documents folder on the teacher device, or on <https://support.lenovo.com/us/en/solutions/HT507784>.**

## Getting Started

Connect all devices individually by logging into each one and connecting to a 5G Wi-Fi network with Internet access. This method requires you to connect to Wi-Fi on all of the headsets and the Chromebook individually to download Expeditions field trips and any other content.

1

From the Chromebook and each headset, go to the Daydream homepage, and click on the Wi-Fi icon.

2

Select a 5G Wi-Fi network that has Internet access, and enter the appropriate password to connect. Connecting the router through a 2.4 gigahertz Wi-Fi won't work.

3

After a few seconds, the Internet will be active on the device. You will know this has occurred when the device Wi-Fi shows as "Connected."

4

If the Wi-Fi shows as "Connected, No Internet," you aren't on the Internet yet and need to wait until you see "Connected" before proceeding.

5

If you still don't see "Connected" after several minutes, check that the Wi-Fi network you are connected to is 5G and has Internet access.

6

While using the headset, if you get a white screen that says "No Internet Connection," check to make sure you are logged into a Google account.

# Accessing Google Expeditions

All headsets and your teacher device have been preloaded with the field trips needed to complete the 10 Tablet Academy lesson plans found in the Documents folder of your teacher device.

There are two ways to run Expeditions:

- 1 Discover mode** is engaged when students use the headsets independently. This mode requires you to download the field trips onto each headset.
- 2 Guide mode** is engaged when the teacher guides all students through an experience. This mode requires you to download the field trips only onto the Chromebook.

We recommend you do both so you'll have greater flexibility in the classroom.

## How to Download the Field Trips

- 1** First, be sure you are connected to the Internet using one of the methods described in the section above.
- 2** Next, click the orange Expeditions app from the home screen to open the app, and swipe left to reach the thumbnail gallery.
- 3** Scroll left or right to find as many field trips as you want to show during the demo, and single-click each to download.
- 4** At the bottom of the screen, you can filter content to view more specific subjects. Once the field trips are downloaded, you will see a check box next to each to indicate each field trip is on the device and available to use. Any field trip that does not have a check box next to it will not be available to show in Discover mode.
- 5** This same download process should be used for downloading content onto the Chromebook. Following these steps will give you all the content you need to give a successful demo of the VR Classroom.



**Key item: Looking for additional content? Check out the exclusive Lenovo VR Classroom Content Library at [vrlibrary.tablet-academy.com](http://vrlibrary.tablet-academy.com) using the access code provided after your purchase.**

# Let's Learn with VR!

## THE WILD IMMERSION

*The Wild Immersion*, endorsed by Jane Goodall, is a series of amazing wildlife videos created with 360-degree VR cameras in wildlife reserves around the world. They contain informative narration and high-fidelity audio to create a truly immersive experience among the animals.

Before beginning, always make sure the headsets and controllers are charged and the access point remains plugged in.



In order to view *The Wild Immersion* videos, you will need to click on the yellow Skybox VR Player app, which can be found in the Library.

- Be sure that the users know how to use the hand controllers and how to adjust the headsets for comfort.
- Once each user has centred the laser pointer, you are ready to begin.
- From the home screen, click the Skybox VR Player. If the Skybox VR Player is not on the home screen, have the users click on the Library icon at the bottom right, then select the yellow Skybox VR Player icon to start.
- Next, users will click the desired video and wait for it to begin.
- Once the video has begun, the controller is used only for playing and pausing.

If you have any difficulty at this stage, follow the instructions in the section above.

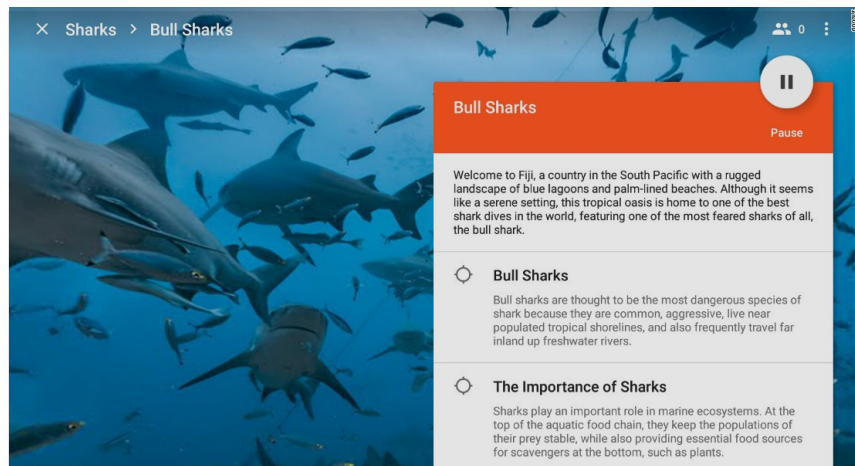


# GOOGLE EXPEDITIONS

## Discover mode: Students work independently

Before beginning, always make sure the headsets and controllers are charged or plugged into power, and distribute them to the students. Again, you will start by explaining to your users how to use the hand controllers and how to put on and adjust the headsets for comfort. Virtual field trips in Google Expeditions do not support sound, so earbuds are not necessary. Once each user has centred the laser pointer, you are ready to begin the demo.

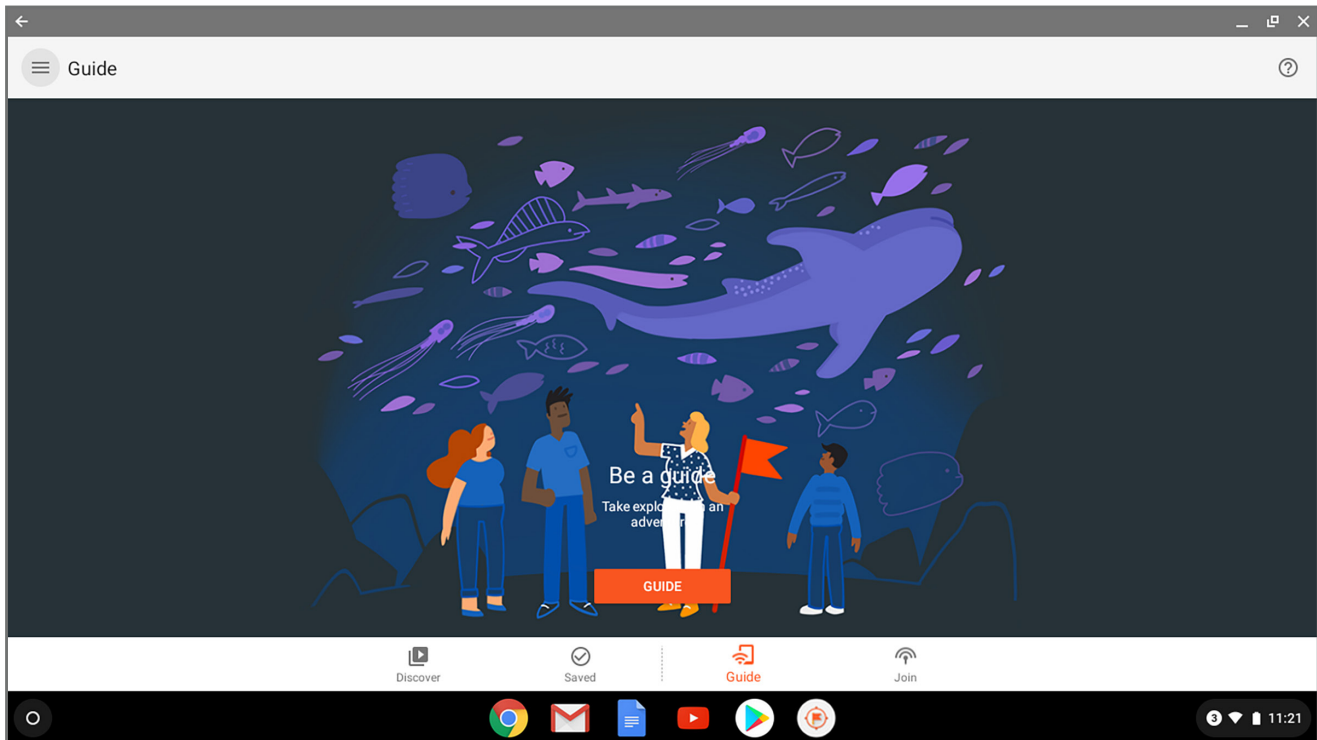
- Single-click the orange Expeditions app to open. If Expeditions is not on the home screen, have users single-click on the Library icon and then select the Expeditions icon to start.
- Users should swipe left when instructed to reach the thumbnails page.
- As they browse the virtual field trips, let users know that they should select only field trips with the small goggles icon on the top right and a white check on the bottom right of the thumbnail. If there is a 3D cube icon, that indicates an AR trip which is not compatible with the VR Classroom.
- No white check in the lower right means the field trip has not been downloaded.
- Have users single-click on the desired field trip.
- Once the virtual field trip has started, instruct students to swipe left and right to see new scenes and to click through the points of interest.
- To select a new virtual field trip, have users single-click the back button and then choose another.



**Key item: Watch the teacher training videos for Expeditions located at [support.lenovo.com/vrclassroom](https://support.lenovo.com/vrclassroom).**

## Guide mode: Teacher controls the experience

Before beginning a demo, always make sure the headsets and controllers are charged or plugged into power.



Prepare the demo by turning on the Chromebook and starting Expeditions.

- Select “Guide” on the bottom menu bar, then select a field trip you downloaded beforehand. Click Start to begin.
- Make sure the field trip you download is VR content; it will have a goggles icon in the upper-right corner of the picture. A 3D cube indicates AR content and is not compatible.
- The field trip is not downloaded unless there is a small white check in the bottom-right corner of the thumbnail.
- To download additional field trips, refer to the demo prep video to connect the Chromebook to the Internet.
- Next, have users put on their headsets and make sure they know how to use the hand controllers and how to put on and adjust the headsets for comfort.
- Virtual field trips in Google Expeditions do not support sound, so earbuds are not necessary.
- Once each user has centred the laser pointer, you are ready to begin the demo.
- On the headset, a VR Classroom Explorer “Live” thumbnail will appear in the thumbnail gallery. Have users click on that thumbnail to begin the field trip.
- Lead your students through the field trip as a teacher and click on targets in different scenes to show students everything.
- You can also assist one of the users with the teacher Chromebook.

If Expeditions is not on the home screen, have users single-click on the Library icon at the bottom right, and then click the orange Expeditions icon to start the app. Users should swipe left when instructed to reach the thumbnails page.

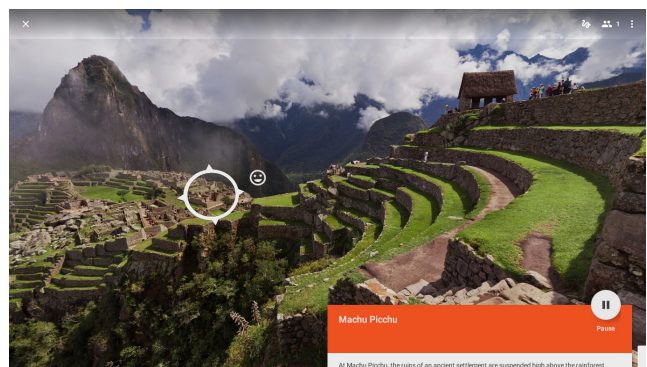
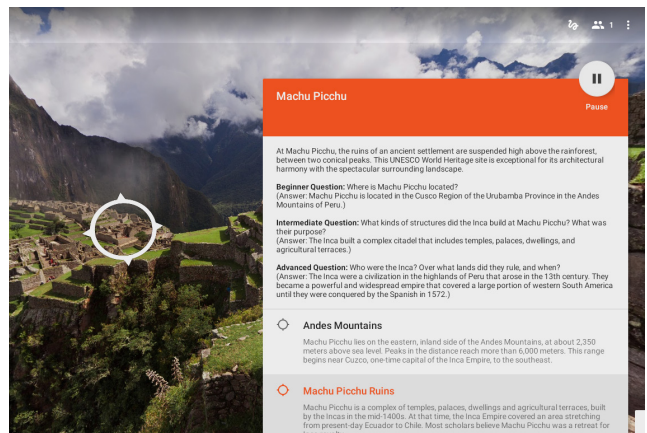
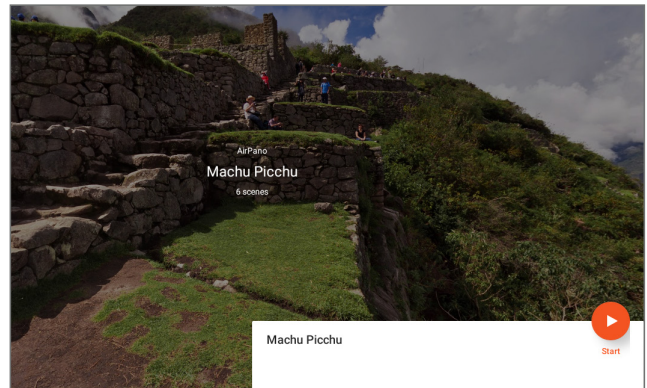
On the headset, a VR Classroom Explorer “Live” thumbnail of the Chromebook’s field trip will appear after several seconds in the upper-left corner on the thumbnail gallery. It is always the first thumbnail on the top-left. Have users click on that thumbnail, and the field trip will begin.

You can now lead your students through the field trip as a teacher, clicking on the targets in different scenes to show students what they should see. You can also assist one of the users with “driving” the teacher Chromebook if the user is interested in seeing how that part of the experience functions.

**Here are some tips if you have difficulty during this process:**

Sometimes the VR Classroom Explorer thumbnail will take several seconds to appear.

- Even if a blank or double “Live” thumbnail comes up on the headset, clicking on it will start the field trip.
- If the thumbnail hasn’t appeared for several seconds, you can try clicking out to the desktop with the Daydream button and starting Expeditions over again, or pause and restart the field trip on the Chromebook.
- If that doesn’t work, force-stop the Expeditions app on the headset, clear the cache, and restart Expeditions and try again. You should have to do this only once.



For any other issues, or if you need to update apps or firmware on the Chromebook, please visit [support.lenovo.com/vrclassroom](https://support.lenovo.com/vrclassroom) for further details.



**Key item: Register for Lenovo’s ongoing monthly Professional Development series to sharpen your VR skills at [support.lenovo.com/vrclassroom](https://support.lenovo.com/vrclassroom).**



## We Are Here to Help!

Web support? All customers may go to [support.lenovo.com](https://support.lenovo.com) for detailed support articles, troubleshooting, and FAQs. Forums? Share your experiences on [forums.lenovo.com/vrclassroom](https://forums.lenovo.com/vrclassroom).

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## Important Note

1

Do not expose the Mirage Solo lenses to direct sunlight. This will damage the device.



## FAQs

**Q:** My headset isn't turning on. I see all black.

**A:** The headset image takes about 5 seconds to pop up once you turn on the headset. You will then be asked to click the home button to wake up the system.

**Q:** How do I adjust the headset?

**A:** Please ensure you have turned the dial on the back of the headstrap to fit snugly on your head and adjust the face mask. If additional adjustments are needed, use the button on the bottom of the Mirage Solo to adjust the distance from your face.

**Q:** My hand controller isn't working. I don't see the laser pointer.

**A:** First, make sure that the hand controller you're using matches up with the headset by verifying the number labels are the same: No. 1 goes with No. 1, No. 2 goes with No. 2, etc. Once pairings are verified, make sure the controller is powered up and fully charged. Then click the home button first. If that doesn't help, hold down the home button for 3 seconds until the controller resets.

**Q:** When I click the controller, it takes me back to the menu.

**A:** If this happens, you are probably clicking the home button instead of the mouse. Move your finger up to the top of the controller, and use that to click.

**Q:** Do the headsets need to be online to work?

**A:** No, they do not have to be online to work. If the school chooses, the headsets can be configured such that they only connect to the teacher device via a wireless access point.

**Q:** Can the headsets be online?

**A:** Yes. They can be online if the school wishes to allow students to connect to the network.

**Q:** Can I Chromecast an expedition from my headset to my smart TV or monitor/screen?

**A:** Yes! For more details, visit [support.lenovo.com/vrclassroom](https://support.lenovo.com/vrclassroom).