

Orchestrate by ScreenBeam

User Manual

Version: 3.5

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Part I Introduction

Orchestrate by ScreenBeam is a fully featured utility for collaboration and managing classes. Working with the ScreenBeam receiver, Orchestrate provides teachers with tools to keep students on task and engaged.

ScreenBeam Orchestrate consists of these parts: Orchestrate Extension, Orchestrate Cloud Server and Orchestrate Windows Assistant (for Windows devices only).

1.1 Features

Key features include:

- Remote commands
- Snip to Share - Pushing screenshots to students
- Chat (instant messaging)
- Real-time monitoring of all student screens in thumbnail grid view
- Real-time monitoring of a single student screen in large view
- Wirelessly present teacher screen
- Wirelessly present student screen
- Launch browser to designated URL
- Command attention (blank student screens and lock keyboards)
- Snapshot student screens
- Web filtering

1.2 Related Documents

To better understand the deployment of ScreenBeam Orchestrate, we recommend you read the following documents:

- ScreenBeam Orchestrate deployment guide
- ScreenBeam Wireless Display Receiver user guide
- ScreenBeam Central Management System user guide

Note: ScreenBeam Central Management System (CMS) is required for applying the ScreenBeam Orchestrate license to ScreenBeam receivers. For more detail or support, go to the address below: <https://www.screenbeam.com/products/screenbeam-cms/>.

1.3 Recommended System Requirements

Recommended system requirements for installing and running the ScreenBeam Orchestrate are listed below:

1.3.1 End User Windows Device

- OS: Windows 10/11 Pro/Edu/Ent (64-bit) or higher or Chrome OS 81.0.4044.103 or later
- CPU (teacher): 10th Gen Intel Core i5 or AMD equivalent/better
- CPU (student): 10th Gen Intel Core i3 or AMD equivalent/better
- Wi-Fi: Intel WiFi6 AX series or better
- MEMORY: Teacher – 8GB (or more), Student – 4GB (or more)
- HDD: 64GB (or more)

1.3.2 ScreenBeam Receiver

The following ScreenBeam receivers are compatible with Orchestrate:

- ScreenBeam 1000EDU-G2 (Firmware 11.2.20.0 or higher)

1.3.3 Network Requirements

If your network is divided into multiple subnets/VLANs, then firewall rules must be applied to allow traffic to flow between the networks.

Common multi-VLAN configurations separate the Teacher, Student and Receiver devices.

- 2 VLAN – 1) Teacher + Receiver, 2) Student
- 3 VLAN – 1) Teacher, 2) Student, 3) Receiver

Service	Protocol	Source	Destination	Port
For all cases				
WebRTC – Video/Audio	TCP/UDP	Student	Teacher	49152-65535 3478 5349 443 19302
WebRTC – Video/Audio (between teacher and student)	TCP/UDP	Teacher	Student	49152-65535 3478 5349 443 19302
For 2 VLAN setups				
Orchestrate Client API	TCP	Student	Teacher	8080
Miracast over LAN (Infracast)	TCP/UDP	Student	Teacher	7250 25030 7236 23030 49152-65535 24030 19134
For 3 VLAN setups				
Orchestrate Client API	TCP	Teacher/ Student	Receiver	8080
WebRTC – Video/Audio (to receiver)	TCP/UDP	Teacher / Student	Receiver	49152-65535 3478 5349 443 19302
Miracast over LAN (Infracast)	TCP/UDP	Teacher / Student	Receiver	7250 25030 7236 23030 49152-65535 24030 19134

- If using a Windows PC, open local **TCP port 49542**, used for communication between the Orchestrate Windows Assistant and the Orchestrate Extension running on the PC.

1.3.4 **Other**

HDTV/projector with available HDMI port

Part II Starting Class with ScreenBeam Receiver

Orchestrate by ScreenBeam works with ScreenBeam 1000EDU-G2 receivers. For the latest firmware of the receiver, go to the website below:

<https://www.screenbeam.com/support>.

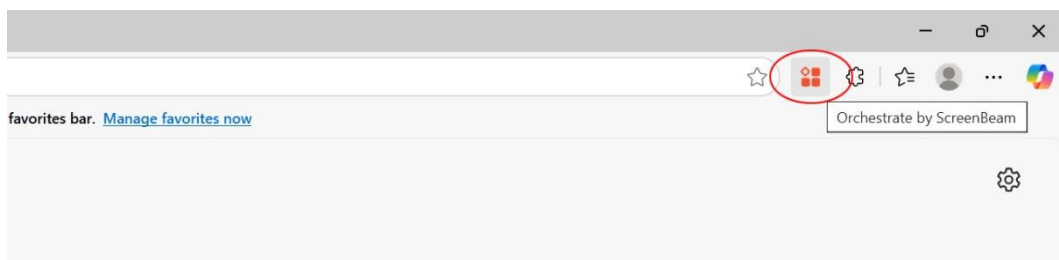
Refer to the ScreenBeam Orchestrate Deployment Guide for details about Orchestrate deployment.

2.1 Connecting Teacher to ScreenBeam Receiver

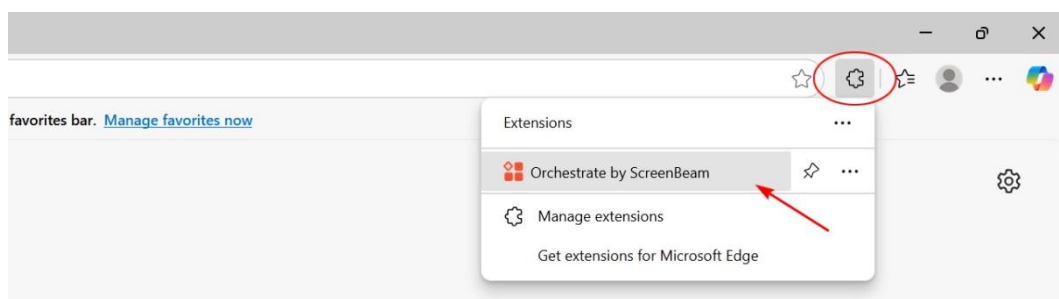
Once the teacher PC is set up, it's time to start a class!

To start a class with ScreenBeam Orchestrate, follow this procedure:

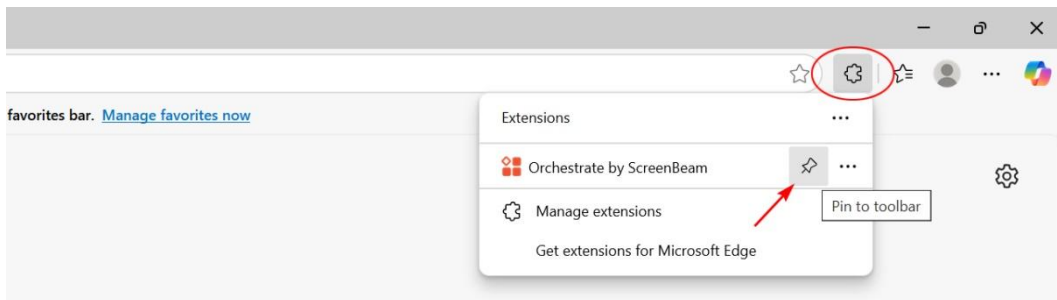
1. Ensure that the teacher PC has joined Microsoft Entra ID (Azure Active Directory previously) if you plan to use Edge.
2. Ensure that the teacher PC is connected to the same LAN as the ScreenBeam receiver.
Note: The teacher PC and the ScreenBeam receiver must be under the same proxy and DHCP server so that the teacher PC can resolve the hostname of the receiver.
3. Launch Edge/Chrome. Ensure that the teacher account has signed in on the browser if Chrome browser is used.
4. Click the Orchestrate by ScreenBeam Extension icon on the toolbar of the browser to start the connection.



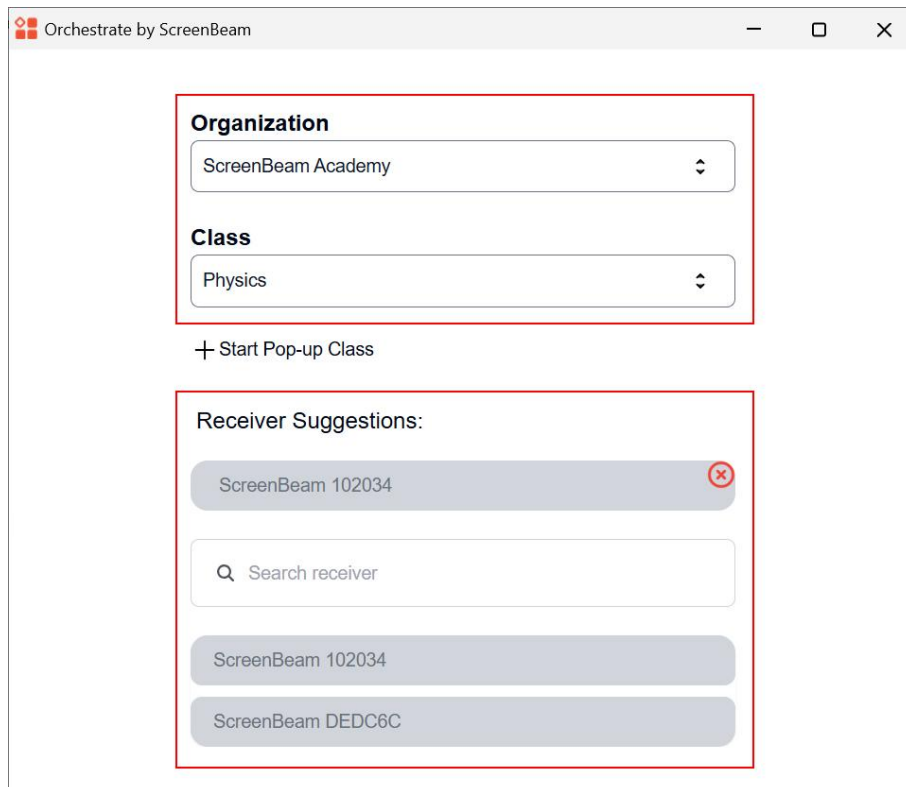
Note: If the Orchestrate by ScreenBeam Extension icon is hidden, click on the **Extensions** icon on the toolbar of the browser and then click the **Orchestrate by ScreenBeam** icon.



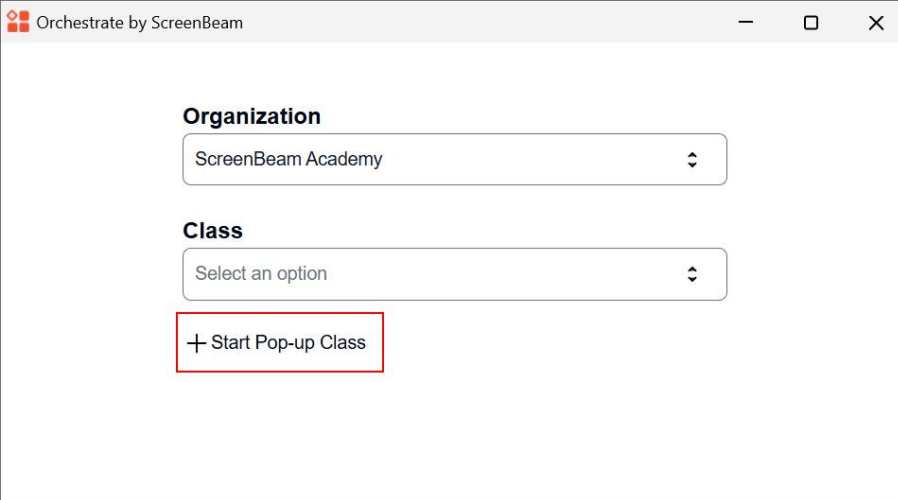
You can also pin the Orchestrate by ScreenBeam Extension on the toolbar of your browser. To do this, click on the **Extensions** icon on the toolbar, and then click on the **Pin to toolbar** icon next to the Orchestrate by ScreenBeam Extension.



5. On the Orchestrate by ScreenBeam Connection window, choose your organization in the **Organization** dropdown box and your class in the **Class** dropdown box, and choose your receiver in the receiver list.



To start an Ad Hoc class, choose your organization in the **Organization** dropdown box and then click **Start Pop-up Class**.



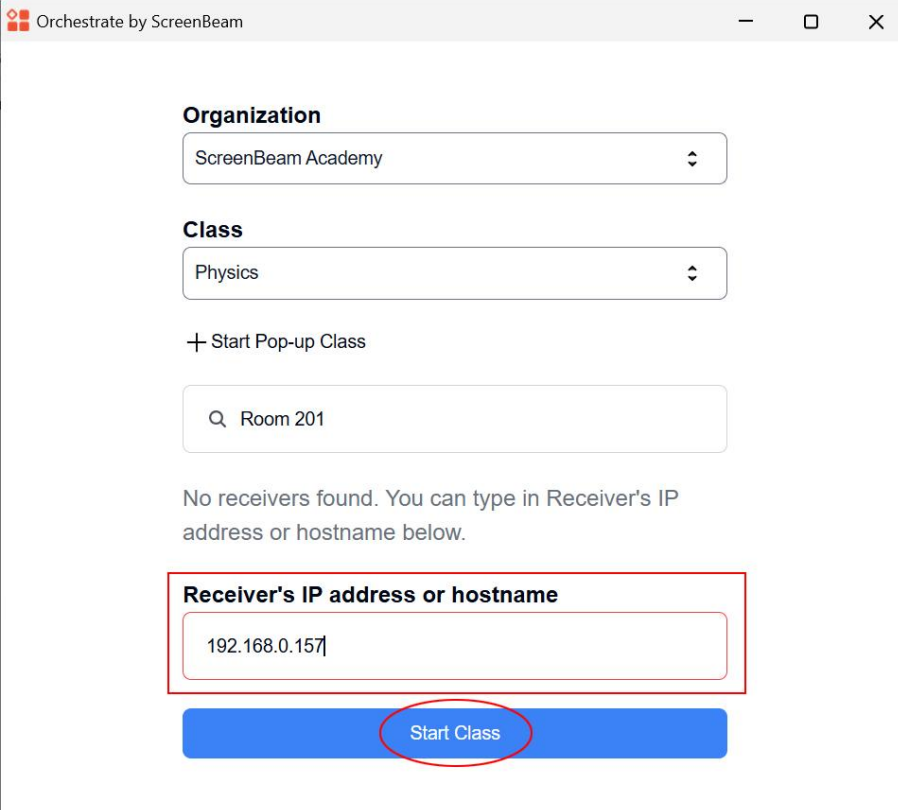
Orchestrate by ScreenBeam

Organization
ScreenBeam Academy

Class
Select an option

+ Start Pop-up Class

Note: Type your receiver name in the Search box to quickly find your receiver if there are many receivers in the list. If your receiver is not found, Orchestrate will show the **Receiver's IP address or hostname** box. Type the IP address or hostname of your receiver in the **Receiver's IP address or hostname** box, and then click **Start Class**.



Orchestrate by ScreenBeam

Organization
ScreenBeam Academy

Class
Physics

+ Start Pop-up Class

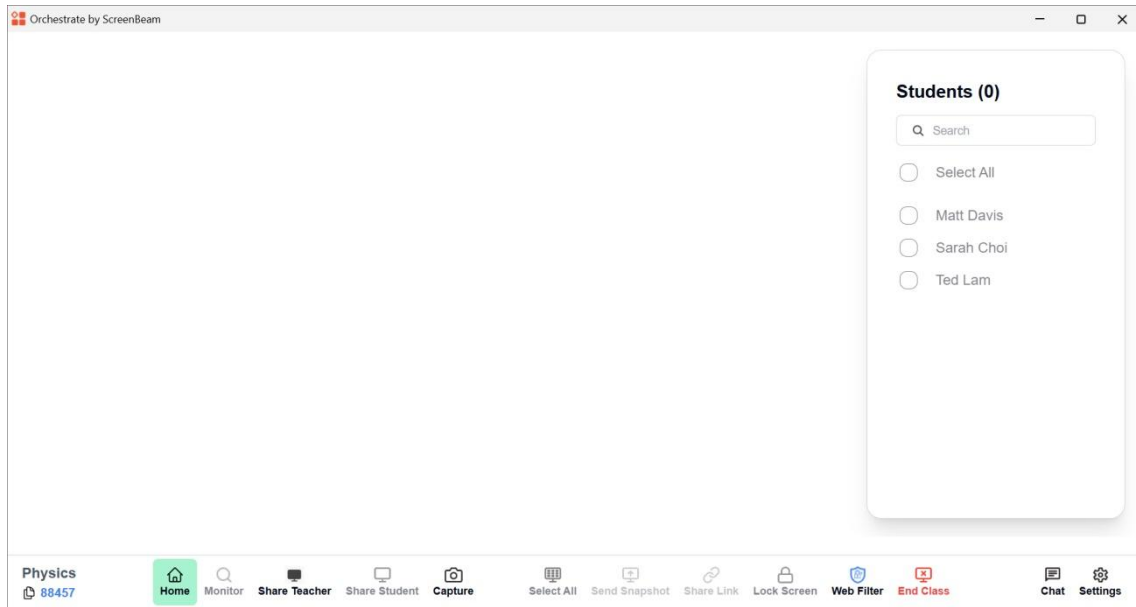
Q Room 201

No receivers found. You can type in Receiver's IP address or hostname below.

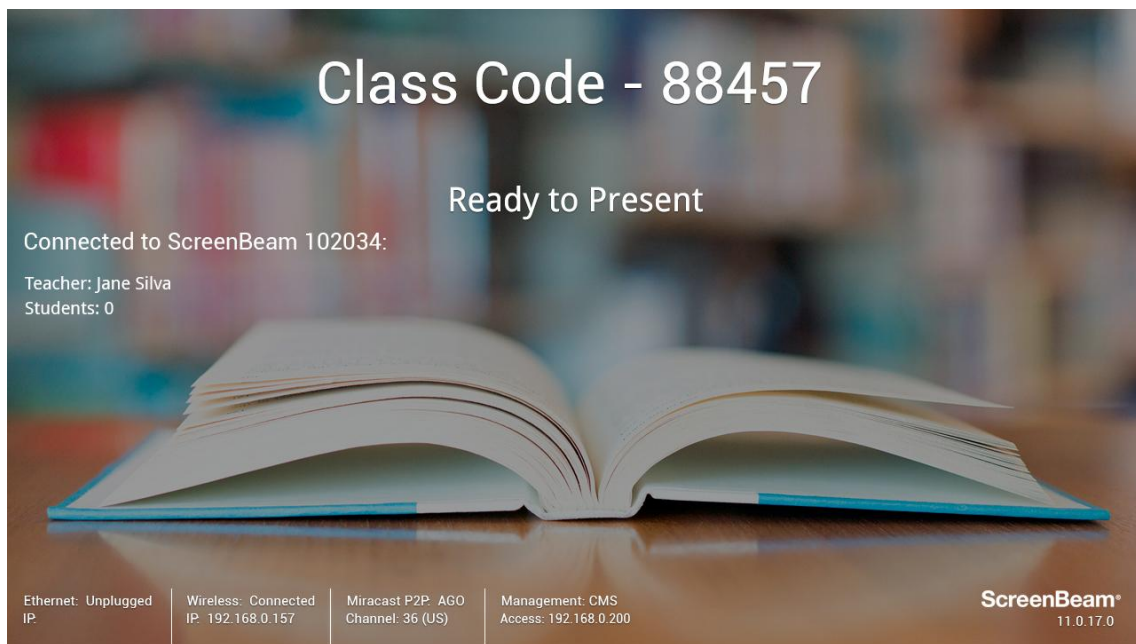
Receiver's IP address or hostname
192.168.0.157

Start Class

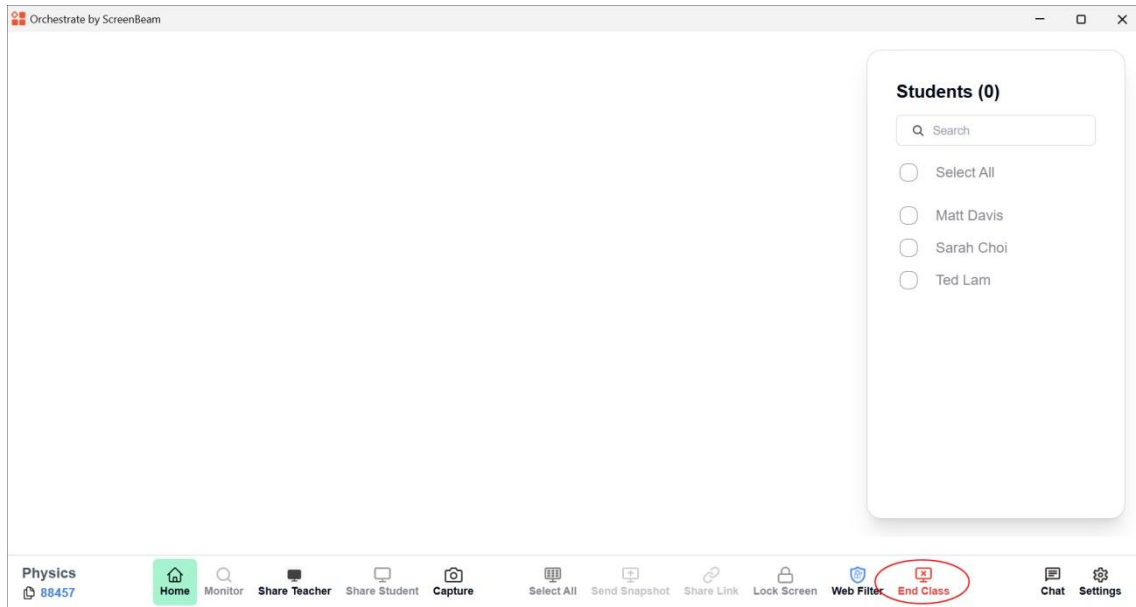
- Orchestrate by ScreenBeam connects to your ScreenBeam receiver and the Orchestrate class window appears.



- The ScreenBeam receiver shows the **Ready to Present (RTP)** screen.



Note: To disconnect from the ScreenBeam receiver, click the **End Class** button on the toolbar or close the Orchestrate by ScreenBeam page directly.



2.2 Connecting Students to ScreenBeam Receiver

To connect student PCs to ScreenBeam, follow this procedure:

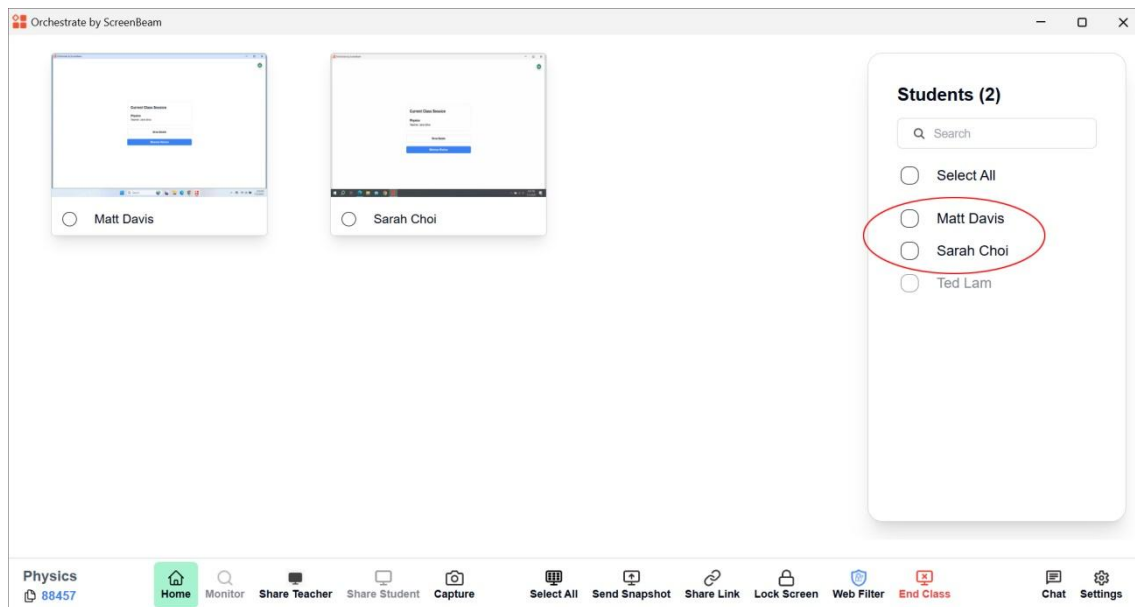
1. Ensure that the student PCs have joined Microsoft Entra ID (Azure Active Directory previously) if you plan to use Edge.
2. Ensure that the student PCs are connected to the same LAN as the ScreenBeam receiver and the teacher.

Note: Set the student PCs to connect to the network automatically.

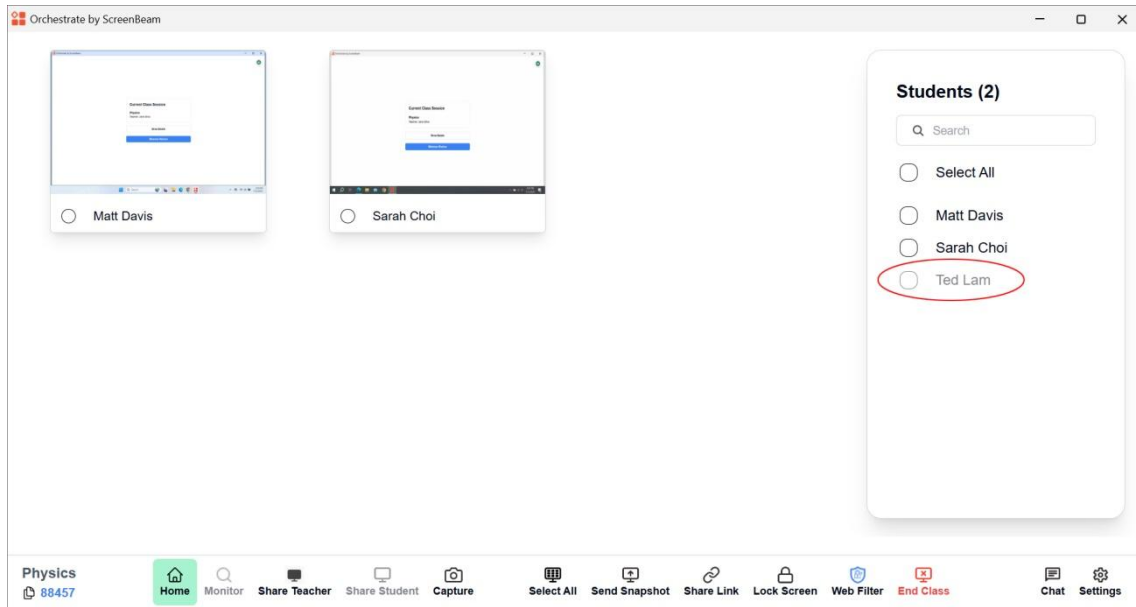
3. If using Chrome, ensure that the student accounts have signed in.
4. Orchestrate by ScreenBeam on students will launch and connect automatically to the ScreenBeam receiver when the teacher starts a class session.

Note: Follow step 4 in section **2.1 Connecting Teacher to ScreenBeam Receiver** to launch Orchestrate by ScreenBeam if it is not yet running on students.

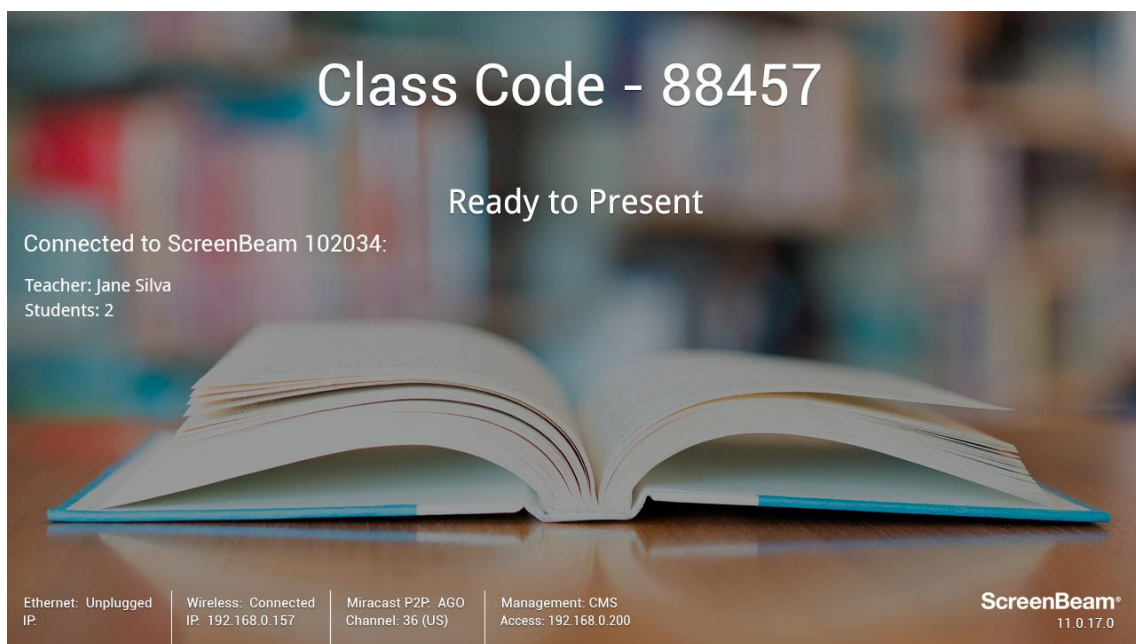
5. The students' names appear in black in the Class Roster of the Orchestrate Home window.



Note: A student that is rostered in the class but not connected to the ScreenBeam receiver is greyed out in the student list.



6. On the ScreenBeam receiver's RTP screen, the number of students is incremented.



Note: Students will automatically be disconnected when the Teacher ends the class.

2.3 Connecting Students to an Ad-Hoc Class

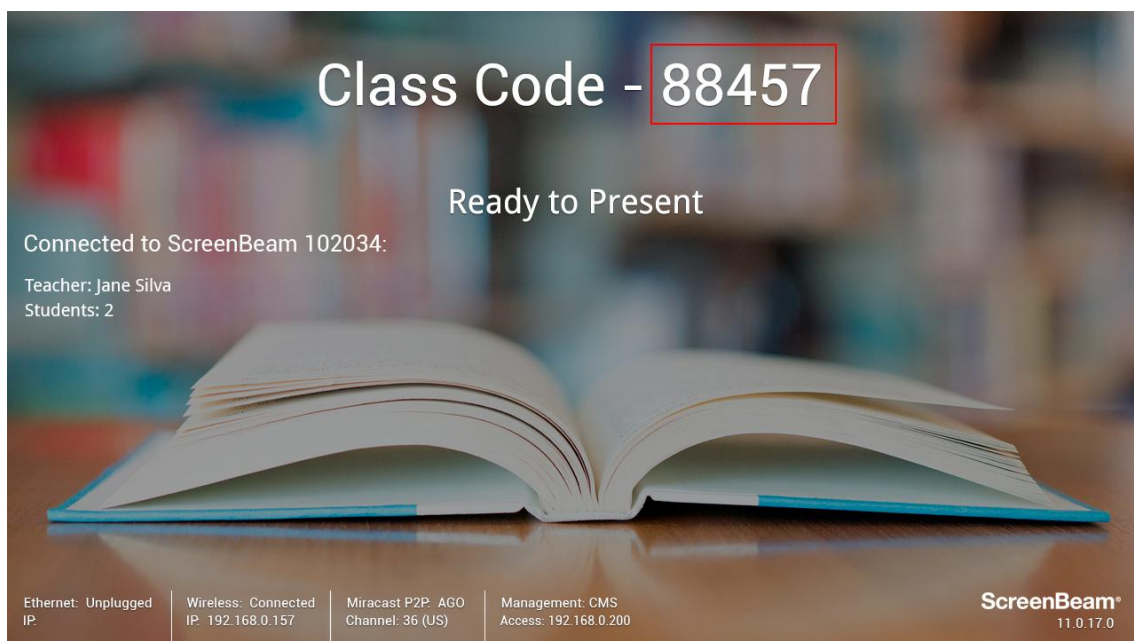
Students can attend another class that is not scheduled for them.

To attend an ad-hoc class, follow this procedure:

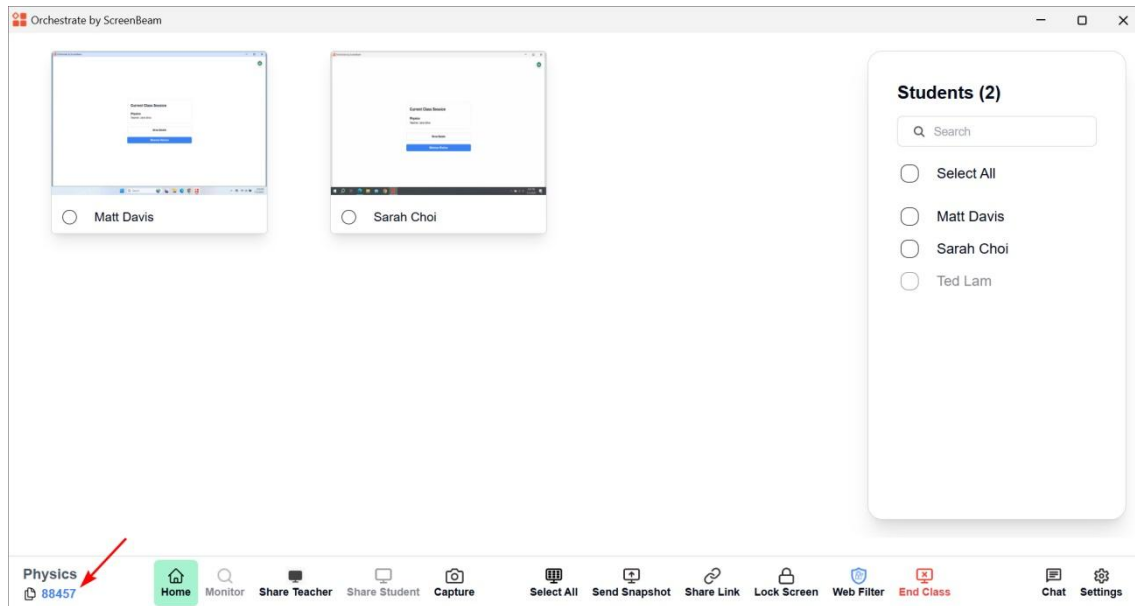
1. Ensure that the student PCs have joined Microsoft Entra ID (Azure Active Directory previously) if you plan to use Edge.
2. Ensure that the student PC is connected to the same LAN as the ScreenBeam receiver and the teacher.

Note: Set the student PCs to connect to the network automatically.

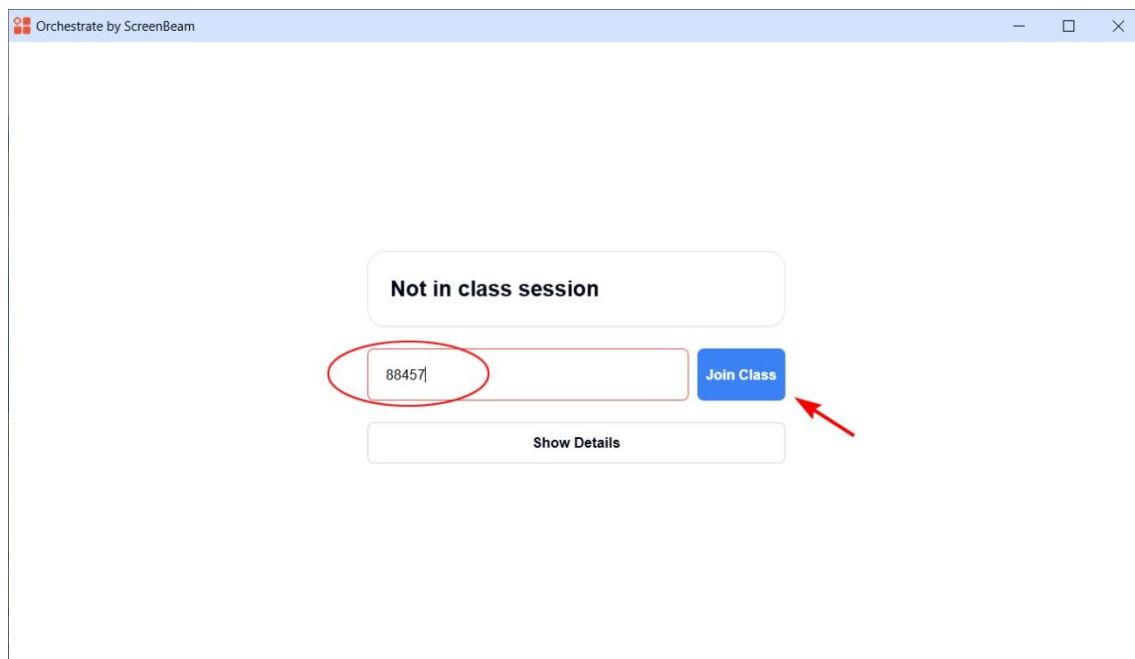
3. If you use Chrome, ensure that the student account has signed in.
4. Start a class on the teacher PC. Get the class code which is displayed on the Ready to Present (RTP) screen.



The class code is also displayed under the section name in the teacher's Home page.



5. On the student PC, type the class code in the **Enter invite code** box and click **Join Class**

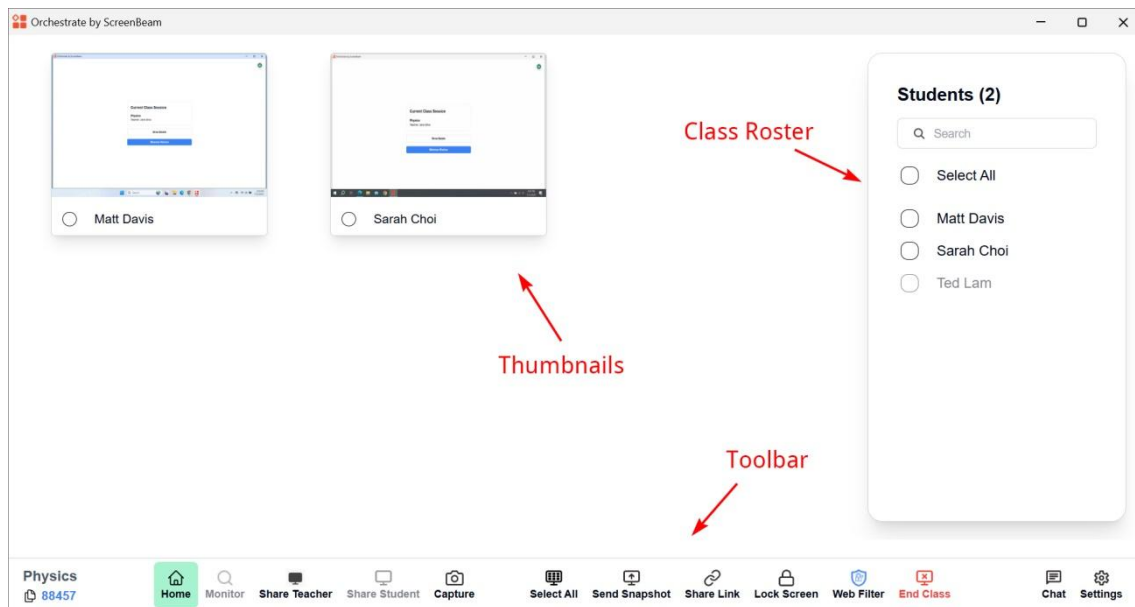


6. The student will immediately join the class. Their name will appear in the student list of the Teacher's Orchestrator Home window.
7. On the ScreenBeam receiver's RTP screen, the number of students is incremented.
Note: Students will automatically disconnect when the Teacher ends the class.

Part III Class Management

ScreenBeam Orchestrate provides class management features, such as monitoring students, beaming teacher's and students' screens, locking student screens, taking screenshots for students, sending teacher snapshot to students, web filtering, chat, and remote commands, to help teachers orchestrate their classrooms.

The ScreenBeam Orchestrate software enhances the teacher's ability to drive lesson flow by enabling them to remotely execute commands on student devices. These commands include blocking students, opening a website, and capturing screenshots of students' devices.



3.1 Beaming the Teacher's Screen

The **Share Teacher** feature allows the teacher to project his/her screen on the display device connected to the ScreenBeam receiver.

3.1.1 Beaming the Teacher's Screen via Miracast

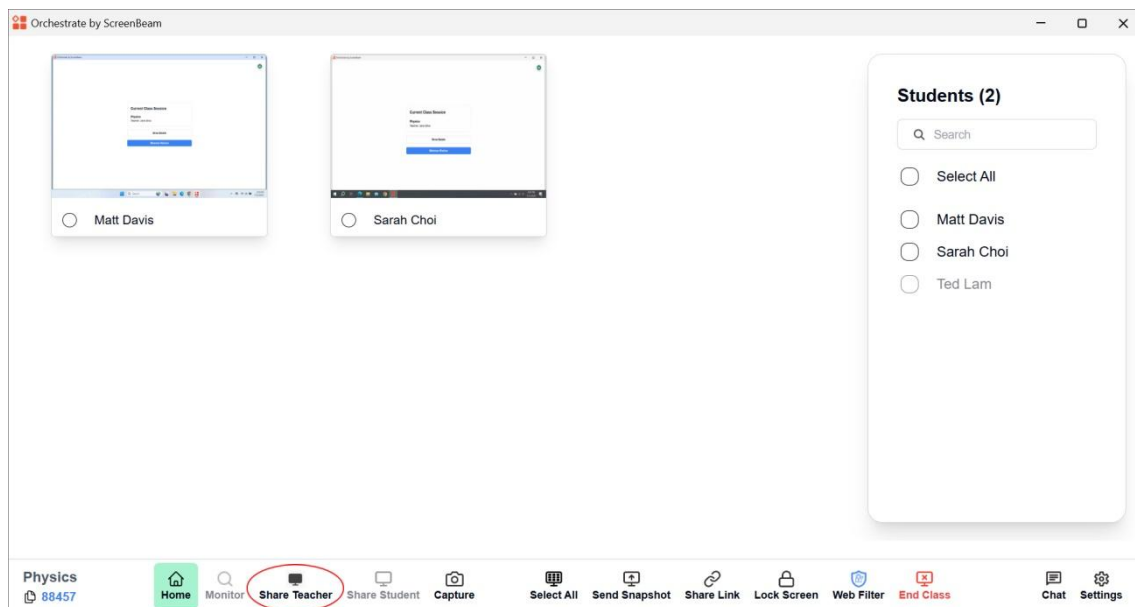
Miracast is used to wirelessly display the teacher's PC to the ScreenBeam receiver and supports wireless touchback.

Refer to the Orchestrate Deployment Guide for details on how to install the Orchestrate Windows Assistant service.

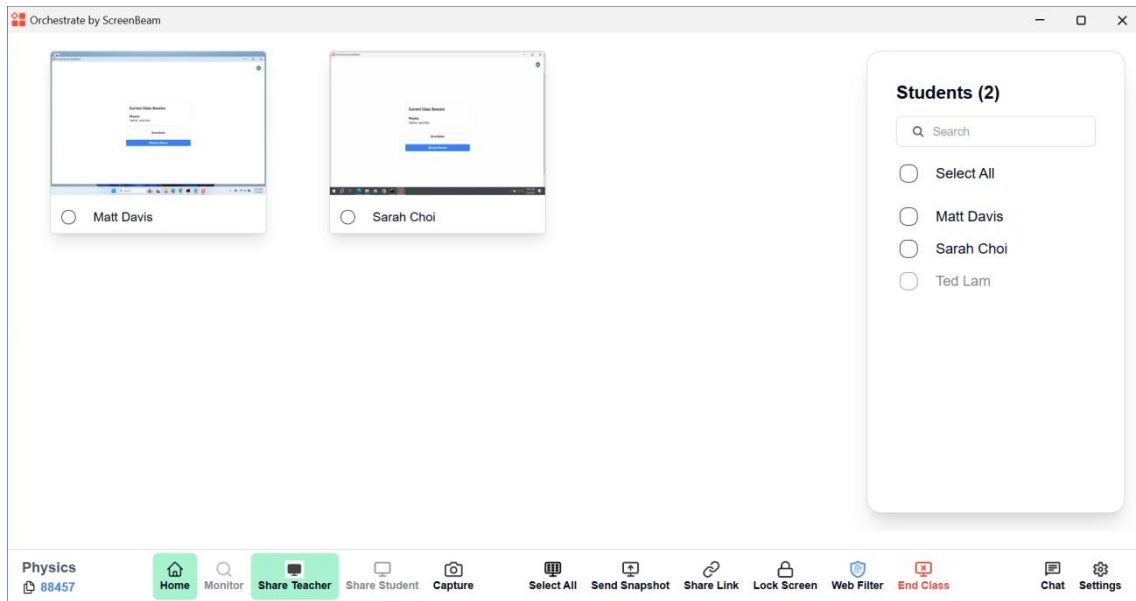
Refer to **Part IV Using an Interactive Touch Display** for details on how to use an interactive touch display.

Project the teacher's screen onto the room display following this procedure:

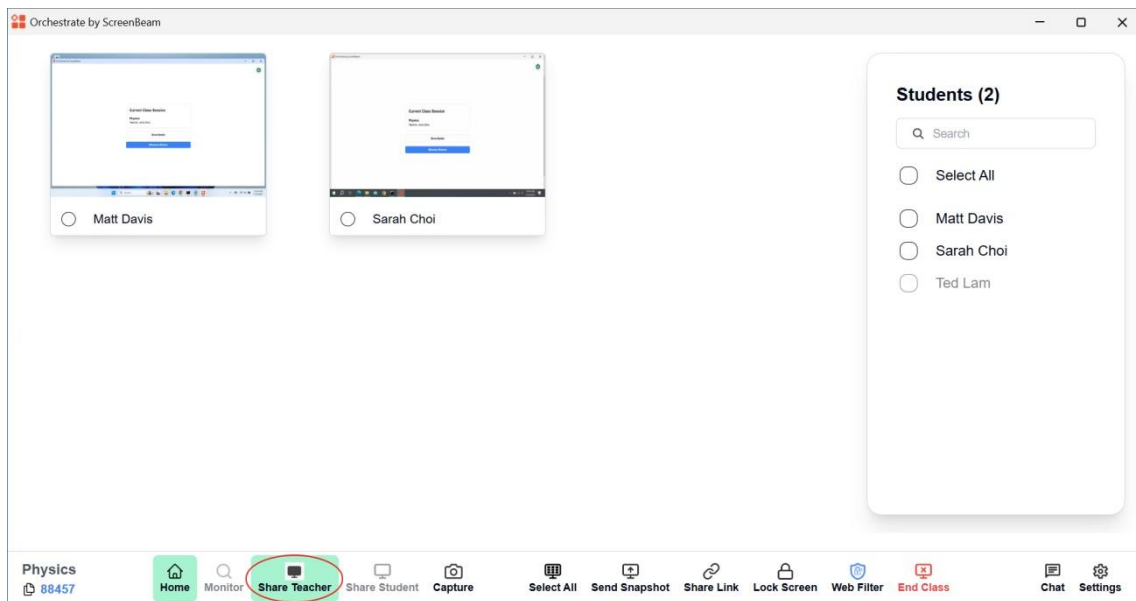
1. Click the **Share Teacher** button on the toolbar to beam the teacher's screen on the display device connected to the receiver.



- The teacher PC will beam to the ScreenBeam receiver. The **Share Teacher** button will become highlighted.



- Click the **Share Teacher** button again to end beaming. The receiver will return to the **Ready to Present** screen.



3.2 Monitoring Students

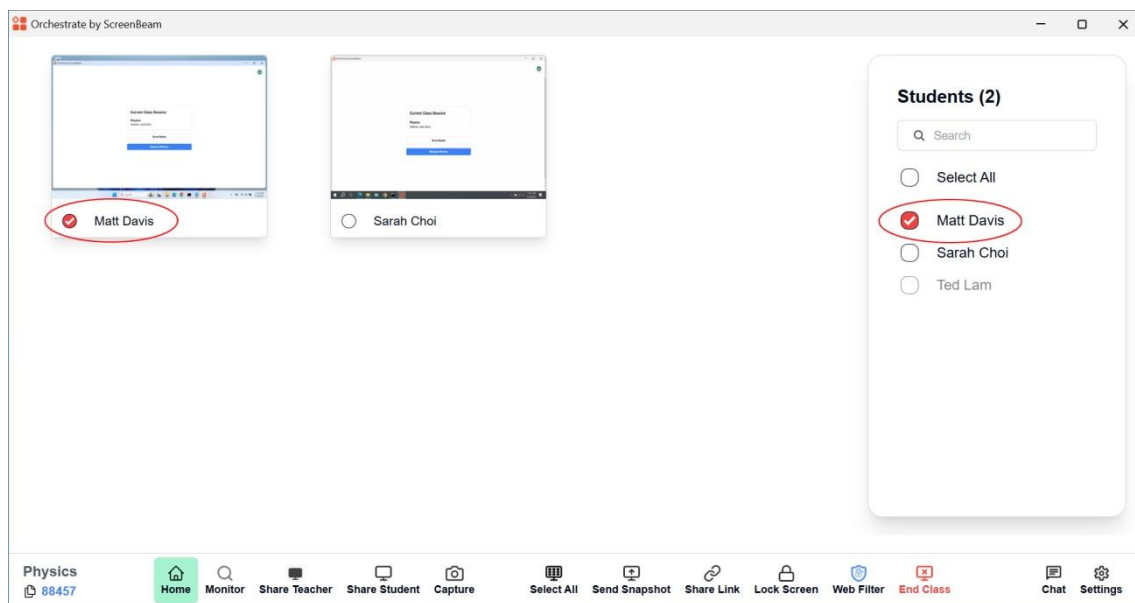
The Orchestrate Home window allows the teacher to monitor their students' activities through thumbnail previews of the students' screens.

Thumbnails of the students' screens will be displayed on the Orchestrate Home window after the students have connected to the ScreenBeam receiver. The thumbnails will periodically refresh.

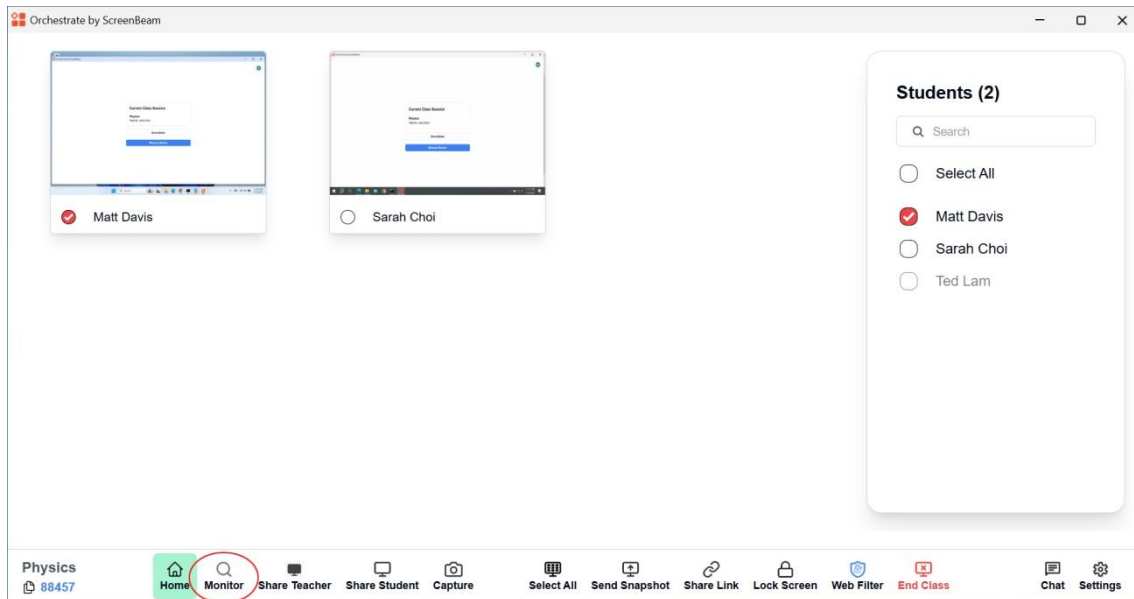
The teacher can preview a student's screen before beaming it to the room display.

Monitor a student following this procedure:

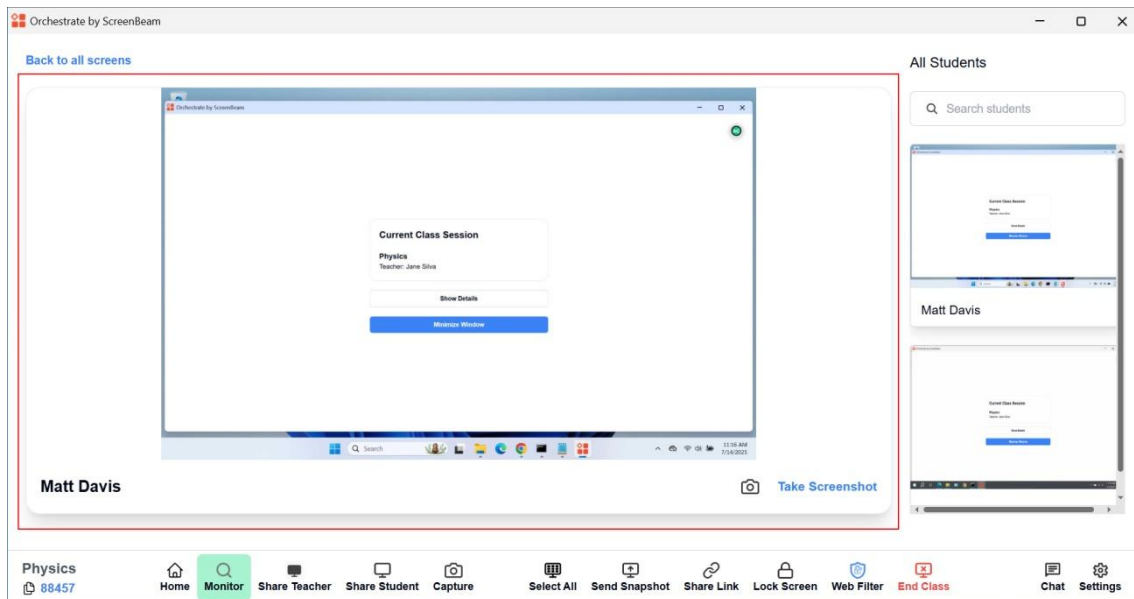
1. Select a student's thumbnail or their name from the student list. The selected student is checked in the class roster.



2. Click the **Monitor** button on the toolbar to start monitoring the student.



The student's screen will be enlarged and is periodically updated.



In the figure above the student Matt Davis is being monitored.

To return to the thumbnail mode, click the **Home** button on the toolbar.

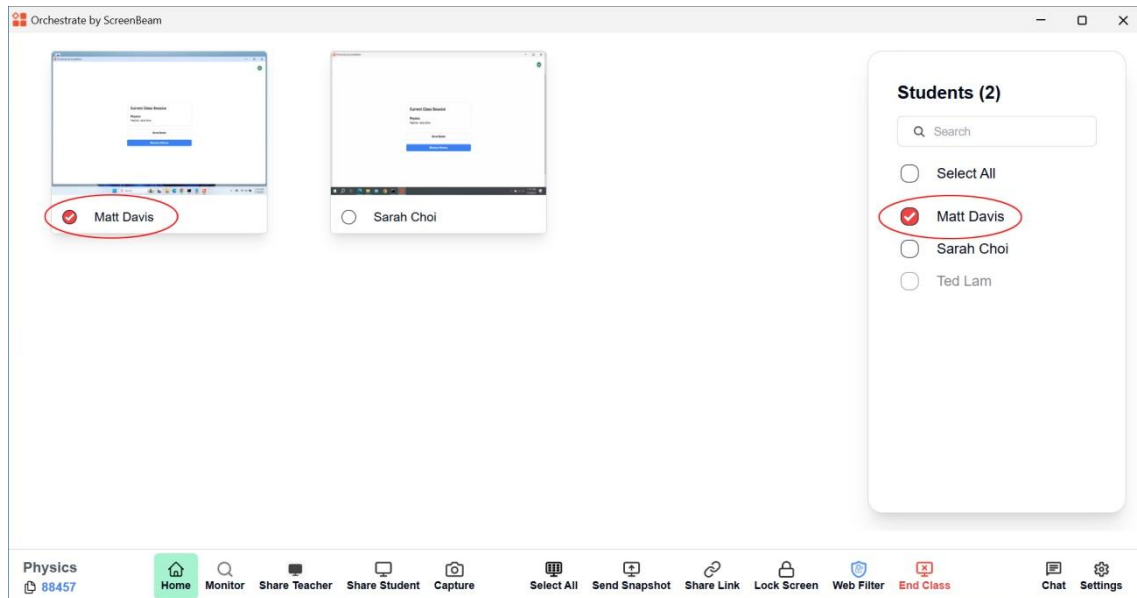
To monitor another student, click a student's thumbnail on the right.

3.3 Beaming a Student's Screen

The teacher can beam a student's screen onto the room display. The teacher may preview a student's screen with the **Monitor** feature before beaming it onto the room display.

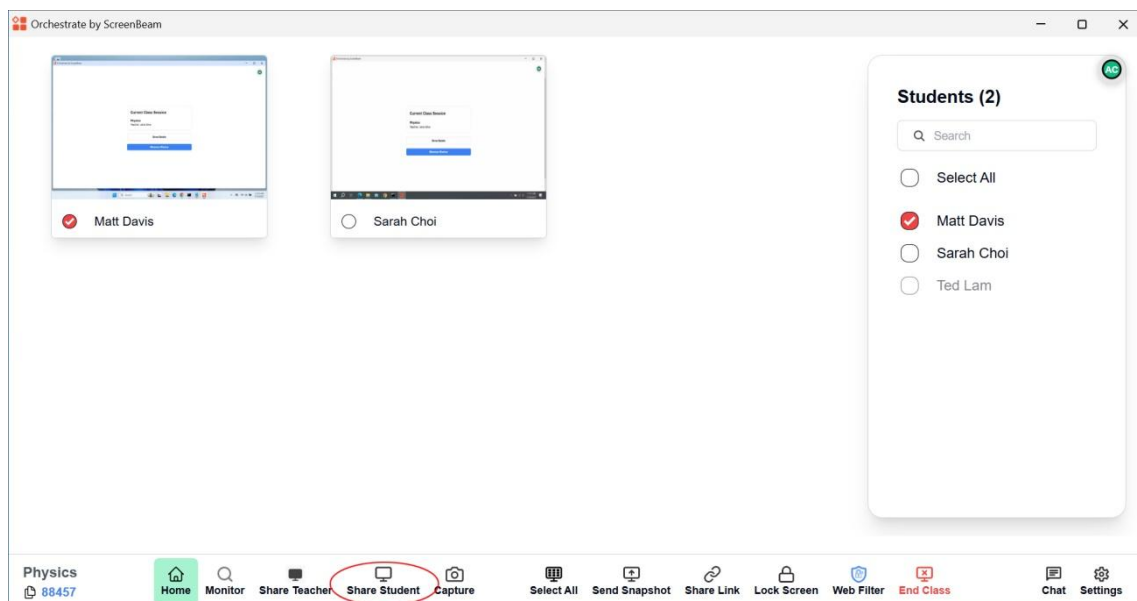
To beam a student PC's screen onto room display, follow this procedure:

1. Select a student's thumbnail or his/her name in the class roster. The selected student is checked in the student list.

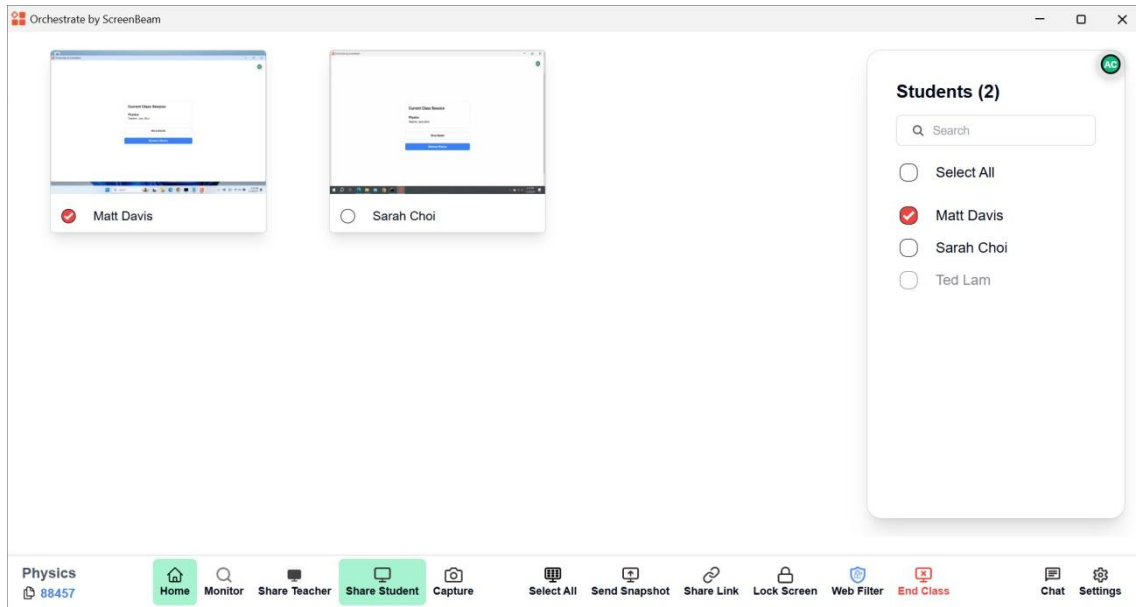


2. Click the **Share Student** button on the toolbar.

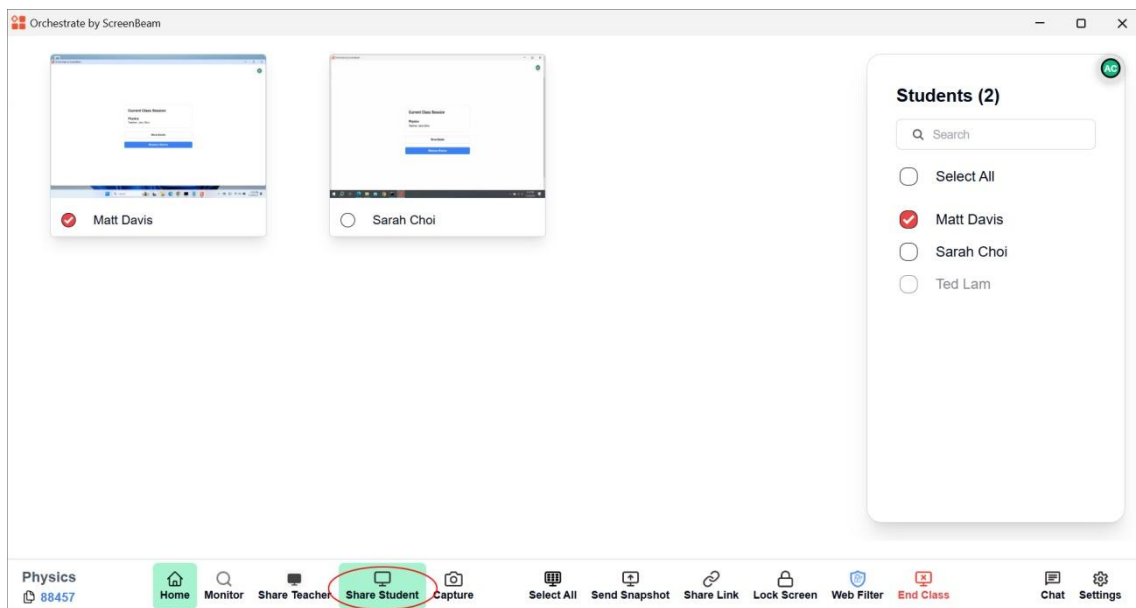
Note: A Chromebook student is allowed to share his/her screen after the student has confirmed sharing on device if the **Student Monitoring Mode on ChromeOS devices** setting on the Orchestrator server is set to **Full Screen**.



3. The selected student's screen will be beamed on the display device connected to the receiver. The **Share Student** button will be highlighted.



4. To stop beaming the student, select the same student and click the **Share Student** button. The receiver will return to the **Ready to Present** state.



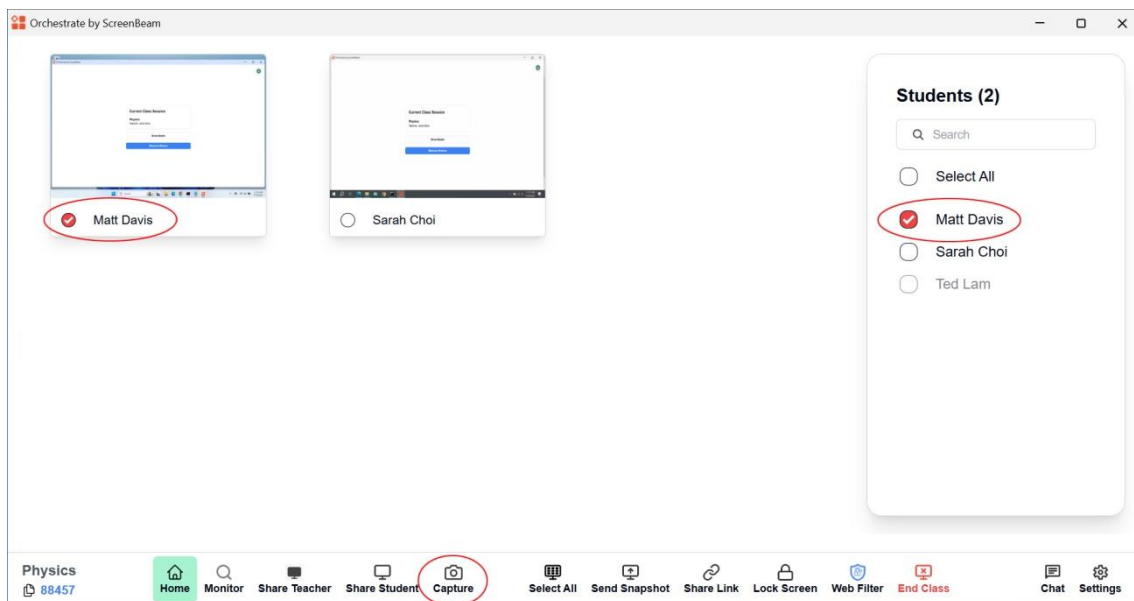
3.4 Capturing Screenshots from Students

The **Capture** feature allows teachers to remotely capture screenshots from students' devices and save them to their PC.

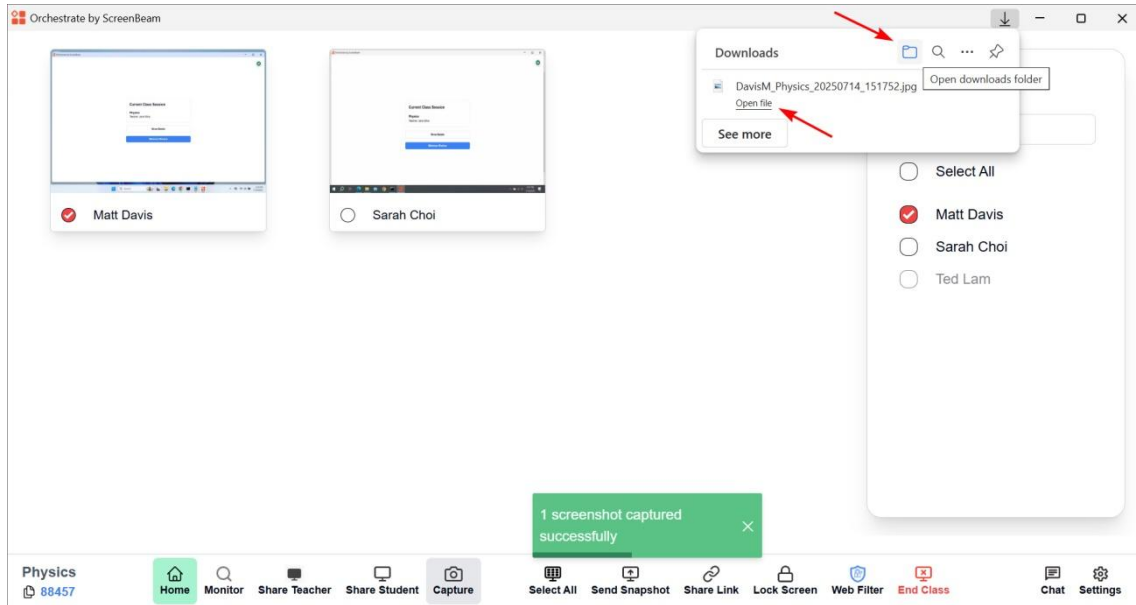
To capture screenshots for one or more students' PCs, follow this procedure:

1. Select one or more students and click the **Capture** button.

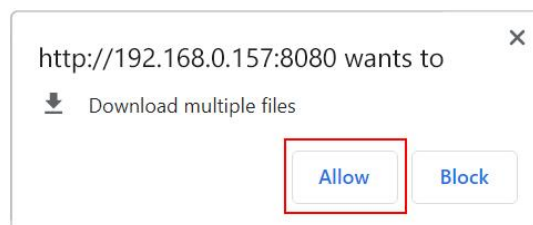
Note: To select all students, click the **Select All** button. If no students are selected, screenshots for all student devices will be captured.



2. The **Downloads** message box appears showing the downloaded screenshots. Click a specific screenshot name to open the screenshot. Click the **Open Screenshot Folder** icon to open the folder where the screenshots were saved. On Windows 10/11, the screenshots are saved in the **Downloads** folder by default, that is C:\Users\{your user name}\Downloads\.



Note: The **Download multiple files** message box may appear, asking you to allow or block file download when you capture screenshots for multiple students for the first time. Click **Allow** to continue.

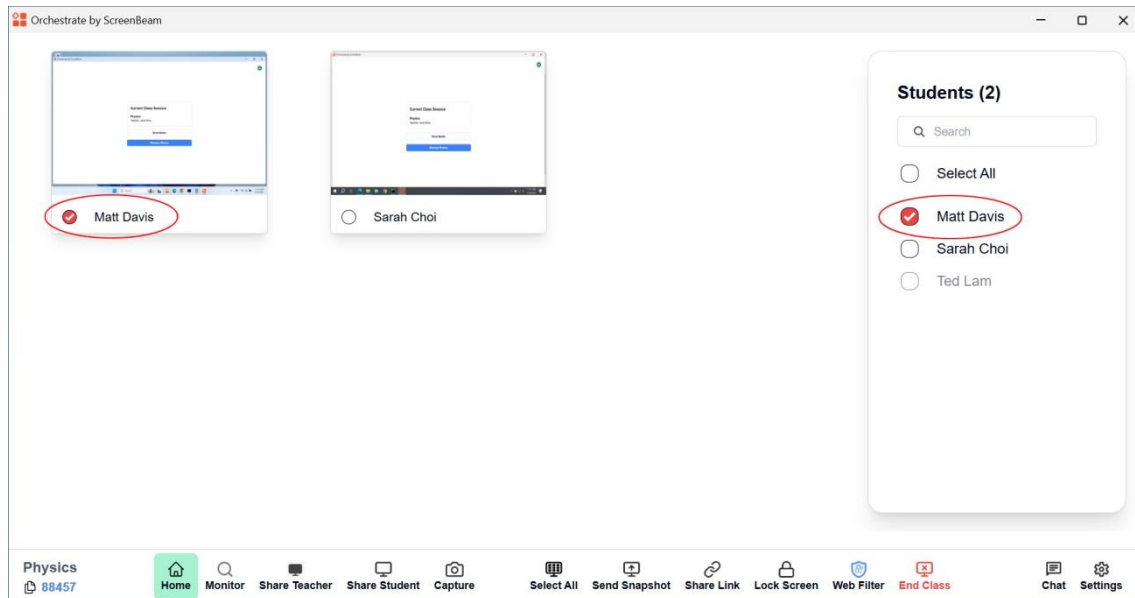


3.5 Pushing a Snapshot to Students

The **Send Snapshot** feature allows the teacher to push snapshots to students in the class. To push a snapshot to students in the class, follow the procedure below:

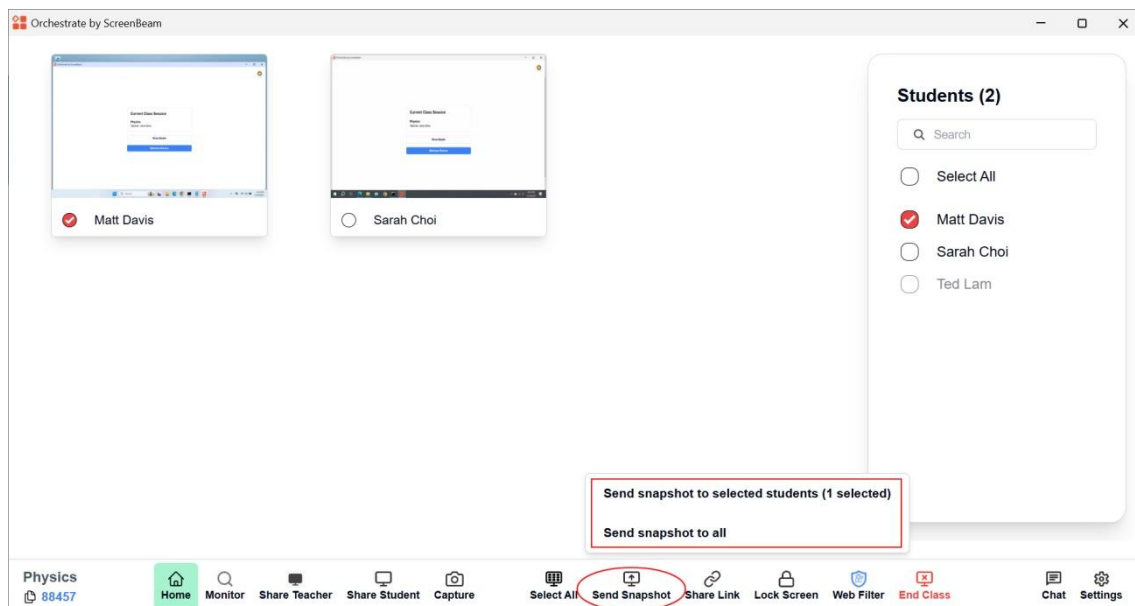
1. On the teacher's Home window, select the students to whom you want to push a snapshot to.

Note: This step is optional if you plan to send a screenshot to the entire class.



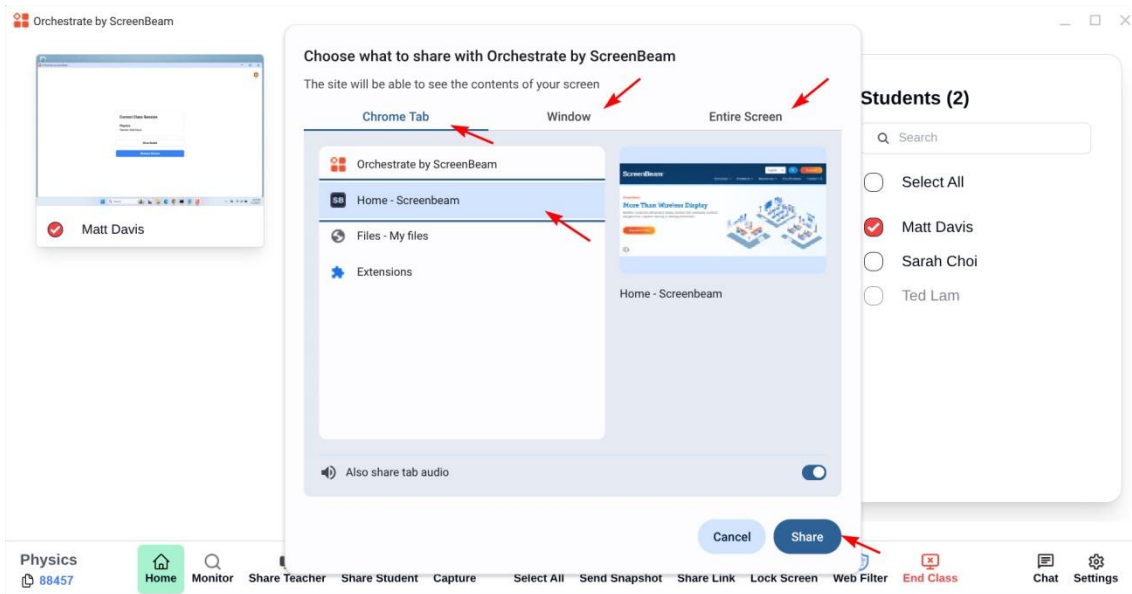
2. Click the **Send Snapshot** icon on the toolbar and then choose **Send snapshot to selected students (# selected)** or **Send snapshot to all**.

- **Send snapshot to selected students (# selected):** The snapshot will be sent to selected students only.
- **Send snapshot to all:** The snapshot will be sent to all students in the class.

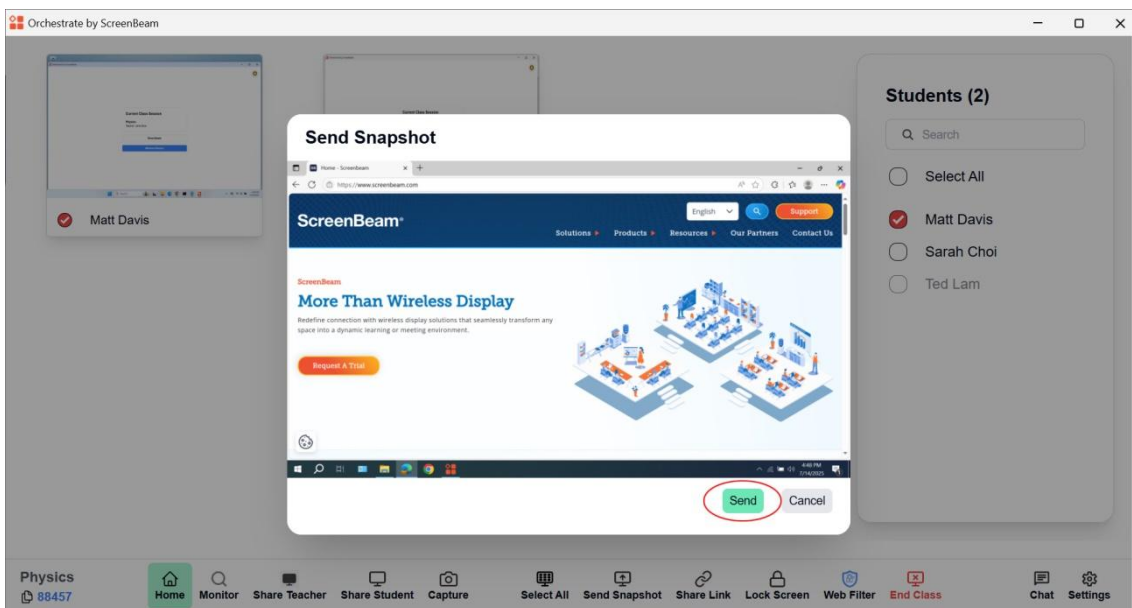


3. If the teacher is using a Windows PC, the entire screen will be shared.

If the teacher is using a Chromebook, the **Choose what to share with Orchestra by ScreenBeam** window will appear. On this window, choose the entire screen, a window, or a tab page that you want to share with your students, and click **Share**.



4. ScreenBeam Orchestra will take a screenshot of the entire screen, the selected window, or the selected tab page and display it in a preview window. Click the **Send** button in the lower right corner of the preview window.

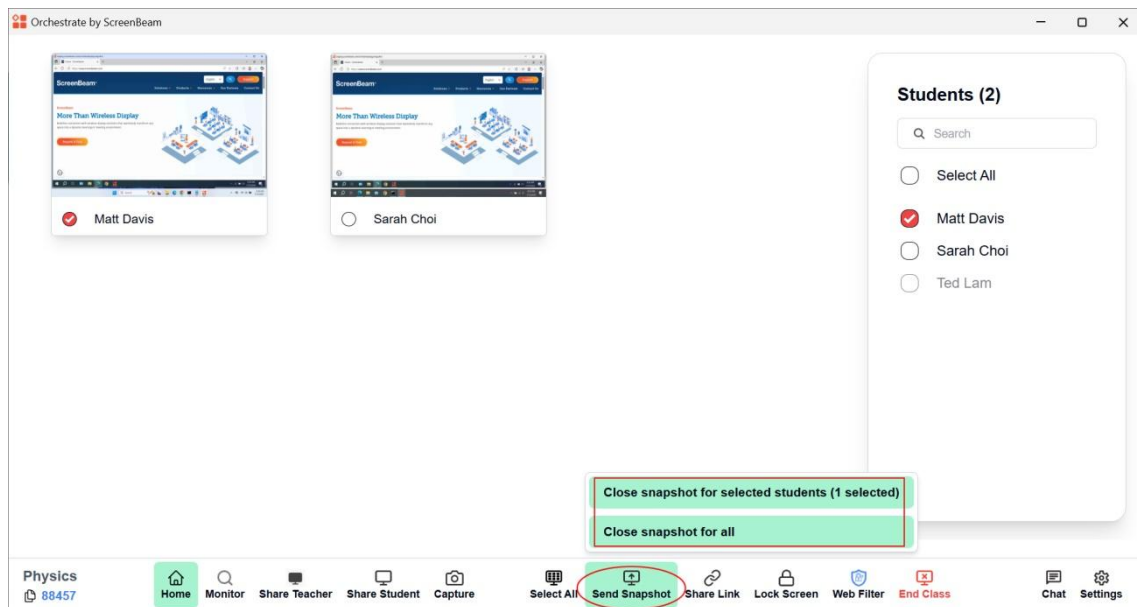


5. On the student devices, a window will open and display the snapshot pushed from the teacher.

Note: For a Chromebook teacher, to push a snapshot of another source (e.g. changing from sharing entire screen to sharing a Chrome tab page), it is required to stop the sharing first and then follow the above steps to push a new screenshot.

6. Click **Send Snapshot** and then choose **Close snapshot for selected students (# selected)** or **Close snapshot for all** to stop snapshot sharing. The snapshot window on the student devices will close.

- **Close snapshot for selected students (# selected):** The snapshot shared on selected students will close.
- **Close snapshot for all:** The snapshot shared on all students in the class will close.



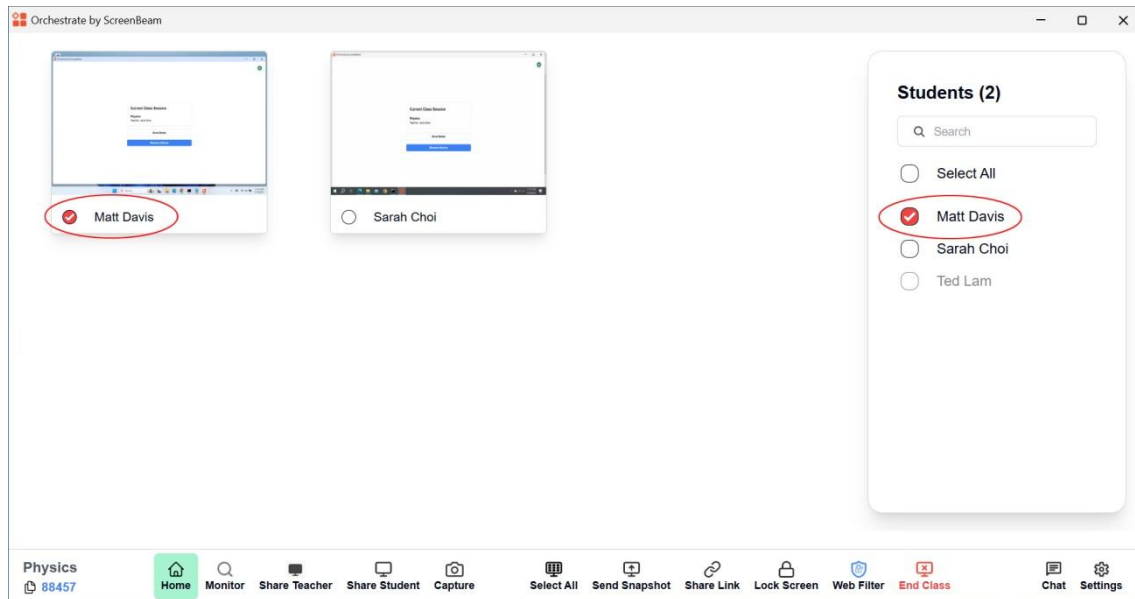
3.6 Opening a Website

The **Share Link** feature allows the teacher to open a website on the students' devices remotely.

To open a website on students' PCs, follow this procedure:

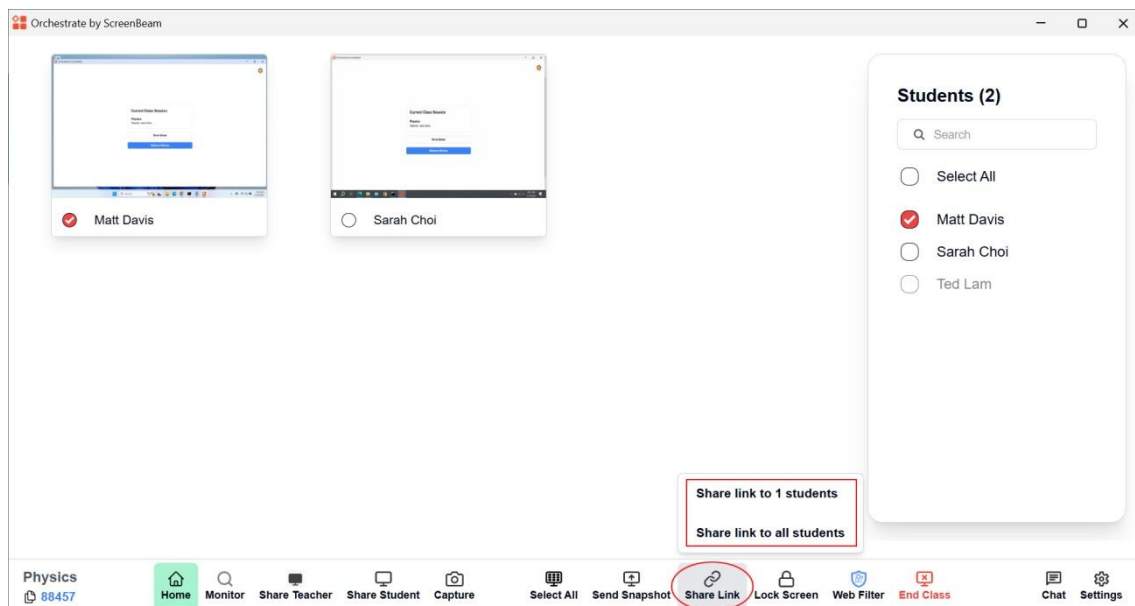
1. Select one or more students to whom you want to share a link with.

Note: This is optional if you want to issue the command to all students



2. Click the **Share Link** button and then select **Share link to # students** or **Share link to all**.

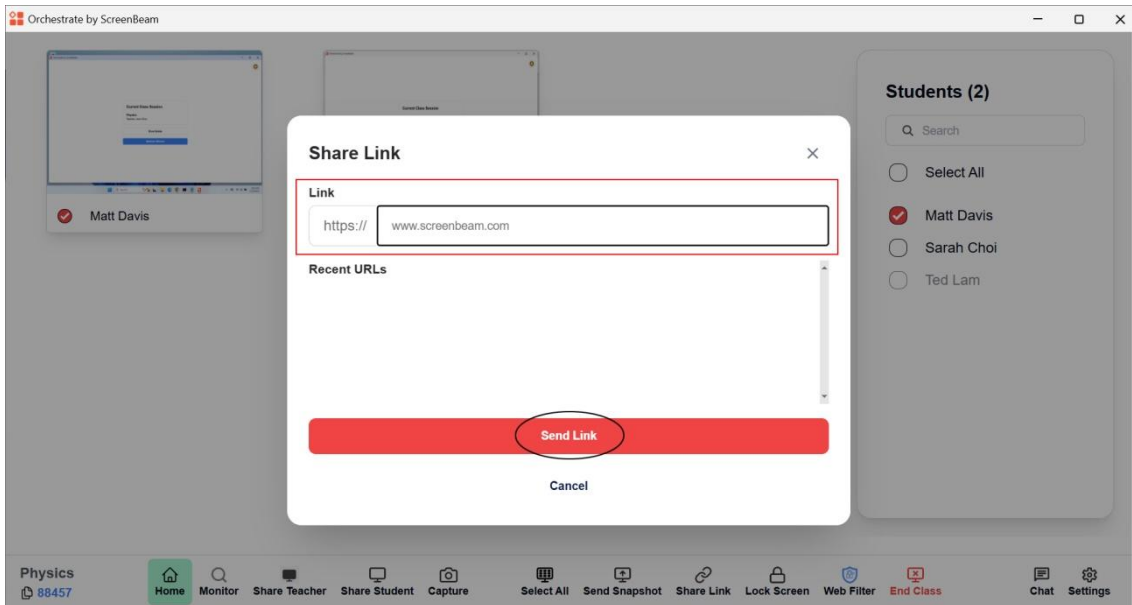
- **Share link to # students:** The link will be shared only to selected students.
- **Share link to all:** The link will be shared to all students in the class.



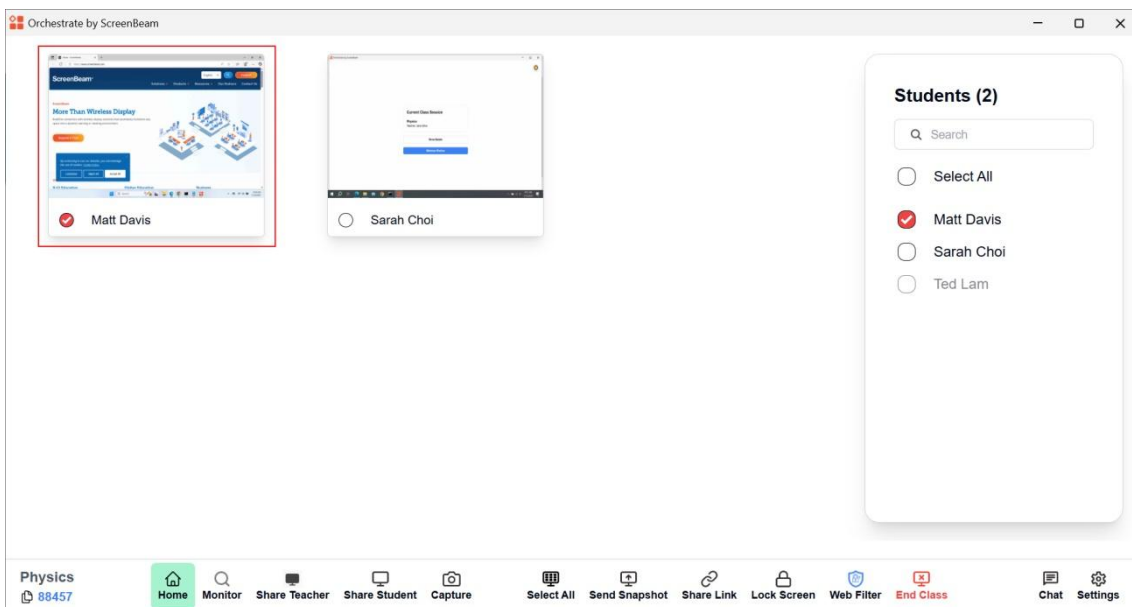
3. The **Share Link** dialog box appears. Enter a website address in the **Enter URL** box and

click **Send Link**.

Note: Only URLs starting with **https** are supported.



On the student's device, the default browser will open the website.



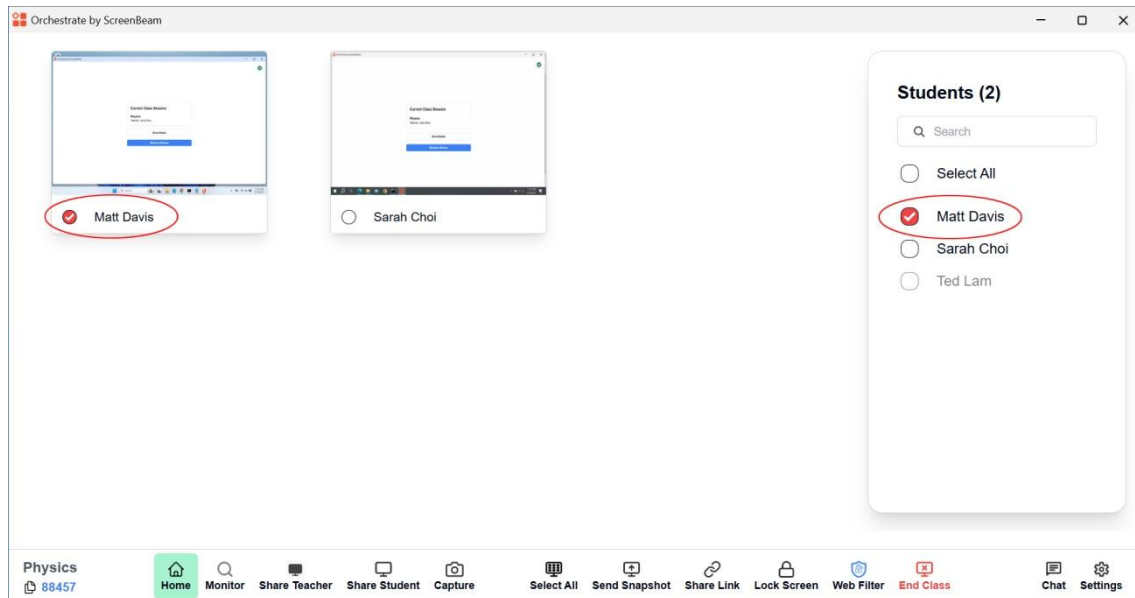
3.7 Locking Student Screens

ScreenBeam Orchestrate allows the teacher to lock students' access to their devices to refocus their attention in the classroom.

To lock student screens, follow this procedure:

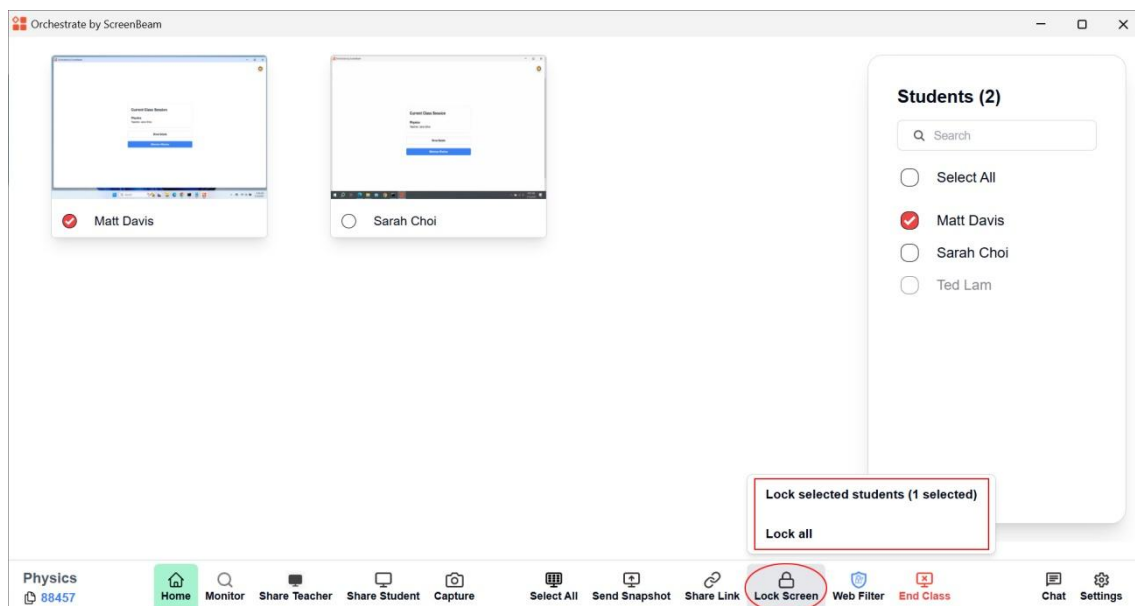
1. Select the student(s) that you want to lock.

Note: This is optional if you want to issue the command to all students



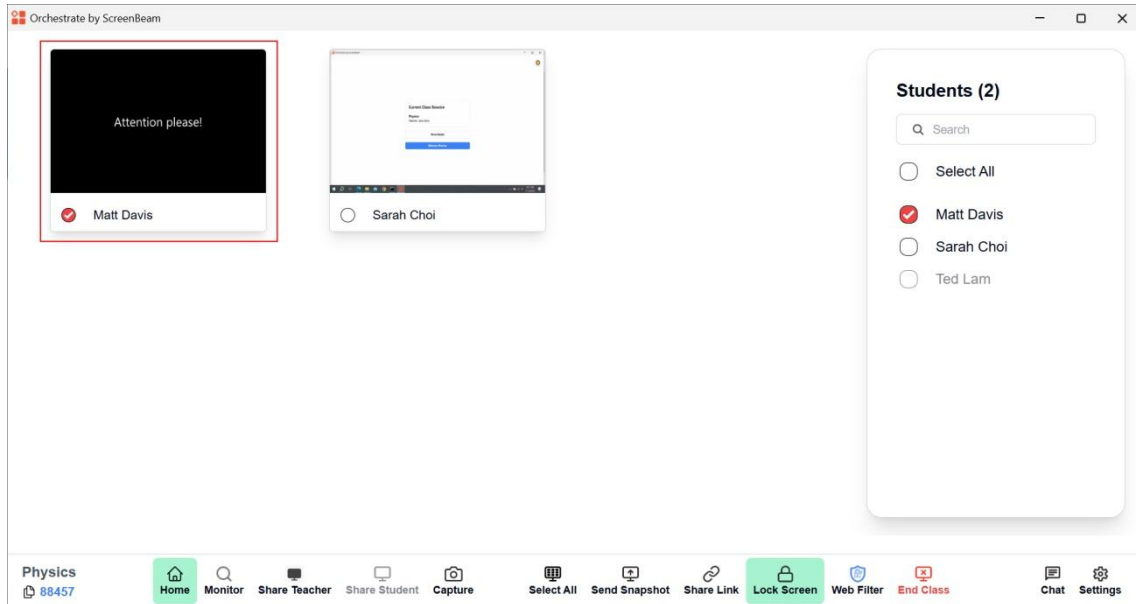
2. Click the **Lock Screens** button on the toolbar and then select **Lock selected students (xx selected)** or **Lock all**.

- **Lock selected students (xx selected):** Only selected students will be locked.
- **Lock all:** All students in the class will be locked.

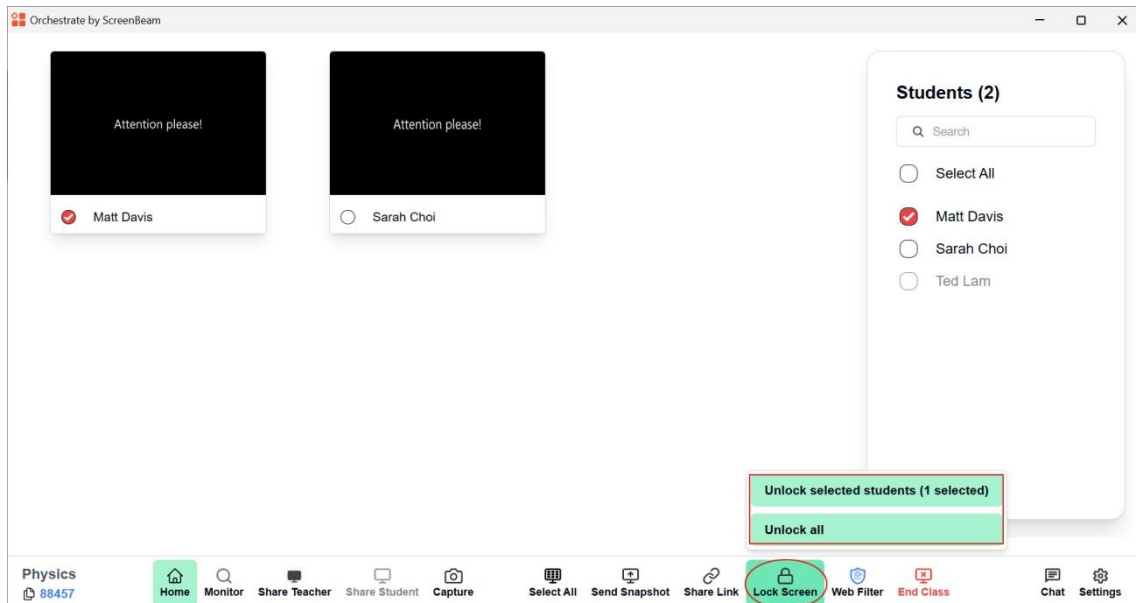


3. The students' screen will be locked with a black screen displaying "Attention please!". Students cannot use their computers in this state. The **Lock Screens** button is highlighted.

Note: The lock screen message can be edited in the Settings > Lock Screen page.



4. To unlock students, select the students you want to unlock, click the **Lock Screens** button and choose **Unlock selected students (xx selected)** or **Unlock all**.
- **Unlock selected students (xx selected):** Only selected students will be unlocked.
 - **Unlock all:** All students in the class will be unlocked.



3.8 Chat

The Chat feature allows the teacher to communicate with their students using instant messages.

3.8.1 Enabling the Chat Feature

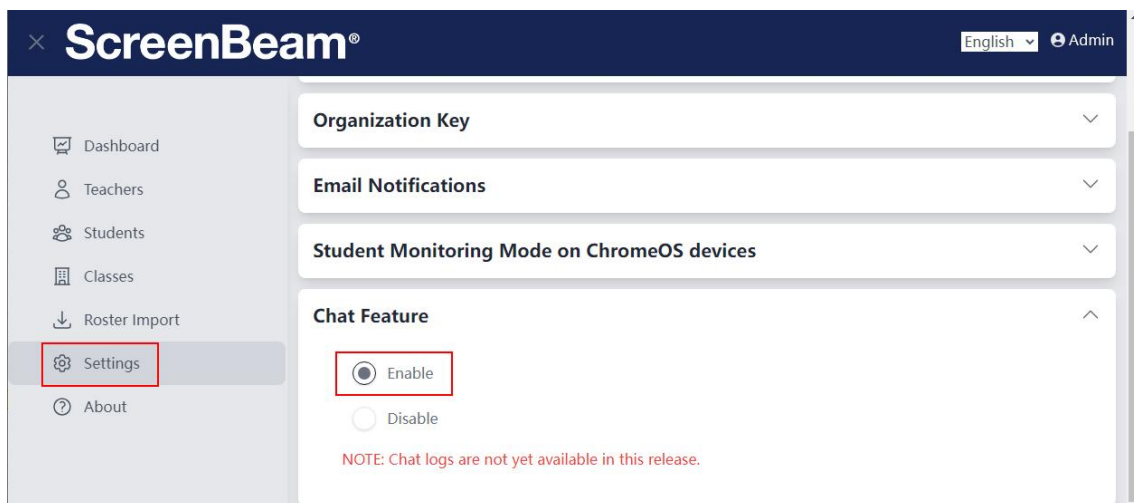
The Chat feature is disabled by default. It can be configured at a district level by an admin. To enable the Chat feature, follow this procedure,

1. Sign into ScreenBeam Cloud (<https://cloud.screenbeam.com>) using a ScreenBeam Cloud user with Orchestra Administrator privilege and then go **Orchestrate**.



Note: The Orchestrate option is only visible if the user has Orchestra Administrator privileges.

2. On the Orchestrate Server, go to **Settings > Chat Feature** and then select **Enable**.
Note: This is a global setting. All Orchestrate clients connected to the server will be affected.

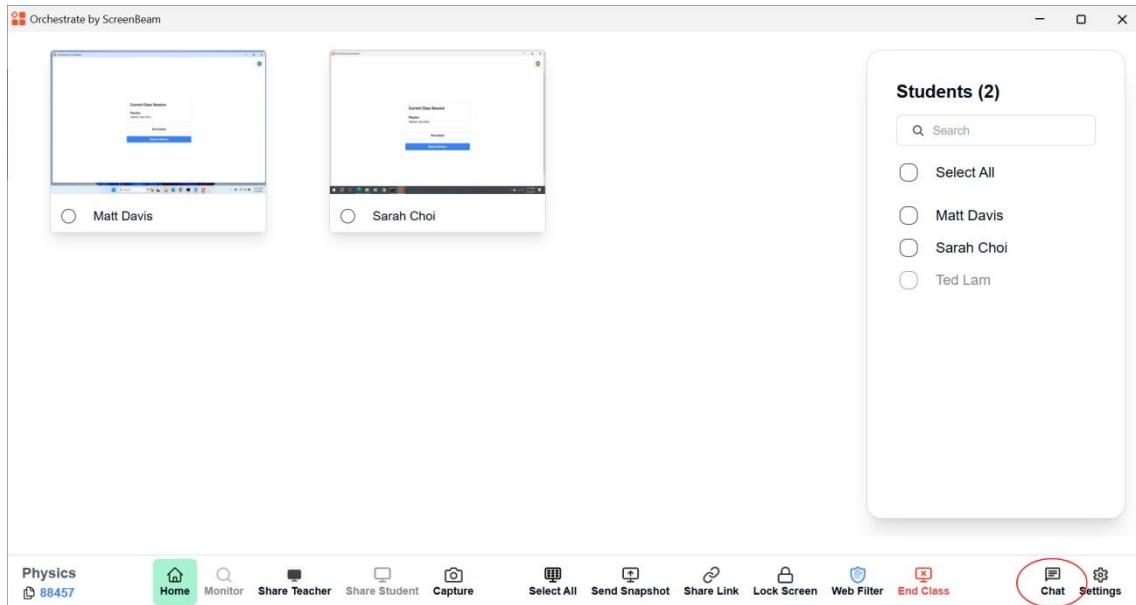


3.8.2 Creating a Chat Group

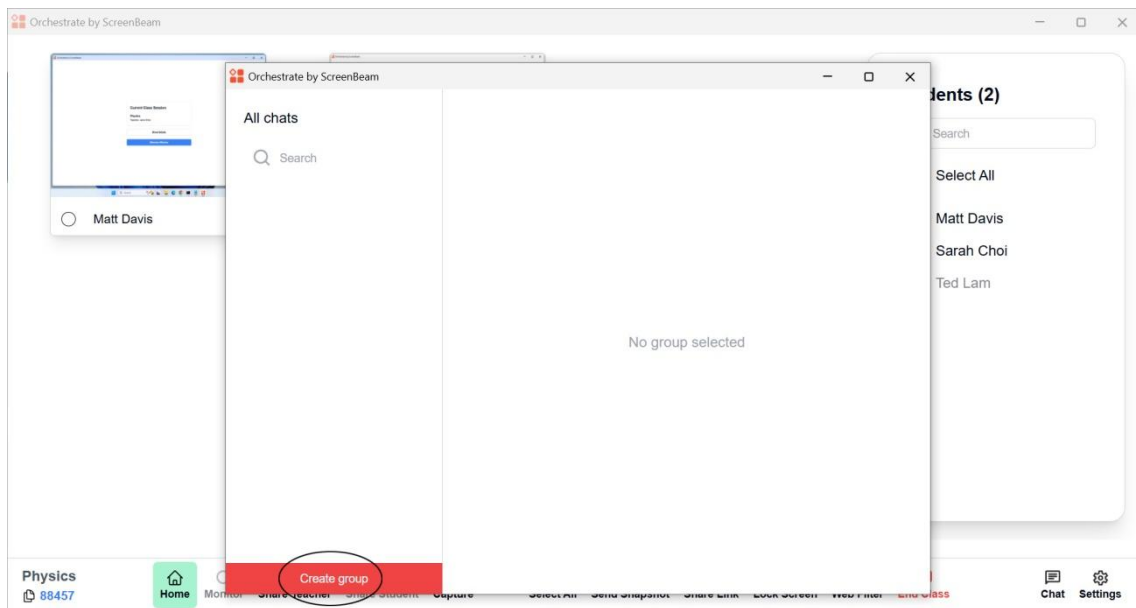
It is required to create a chat group before starting a chat session.

To create a chat group with one or more students, follow the procedure below:

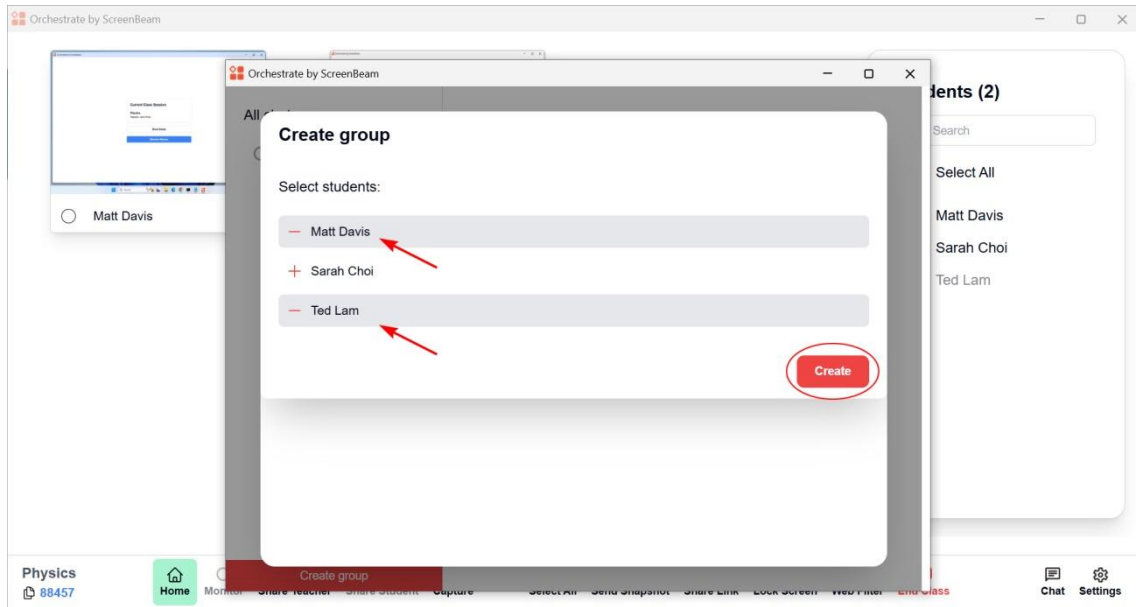
1. Click the **Chat** button on the toolbar of the Orchestrate window to start the Chat window.



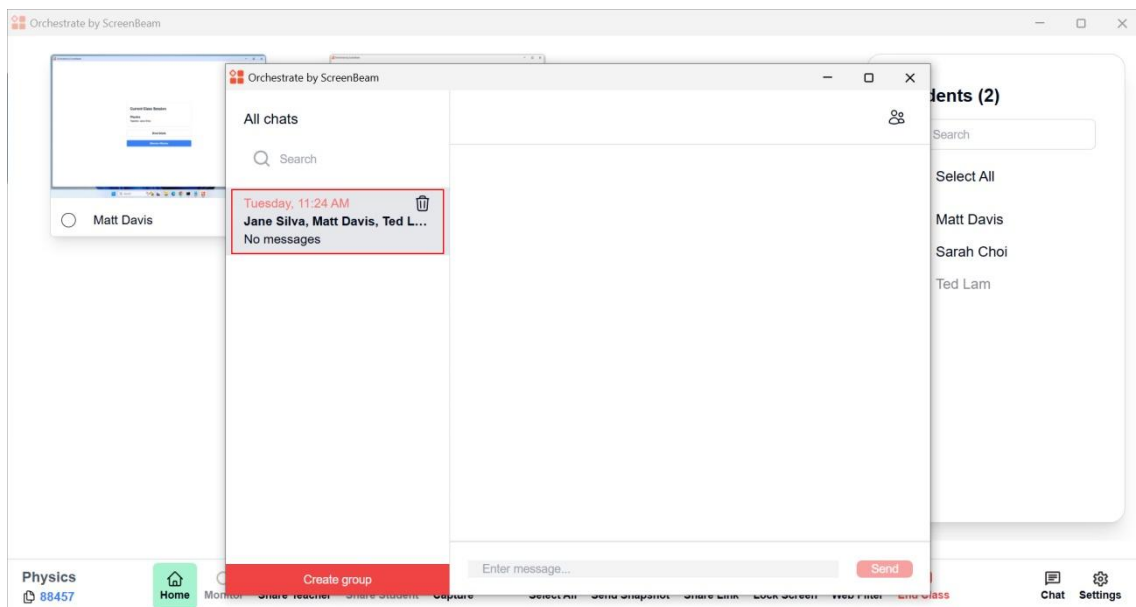
2. On the Chat window, click **Create Group**. The **Create Group** window will appear.



3. On the **Create Group** window, click the student names to select the students that you want to chat with in the group, and then click **Create**.



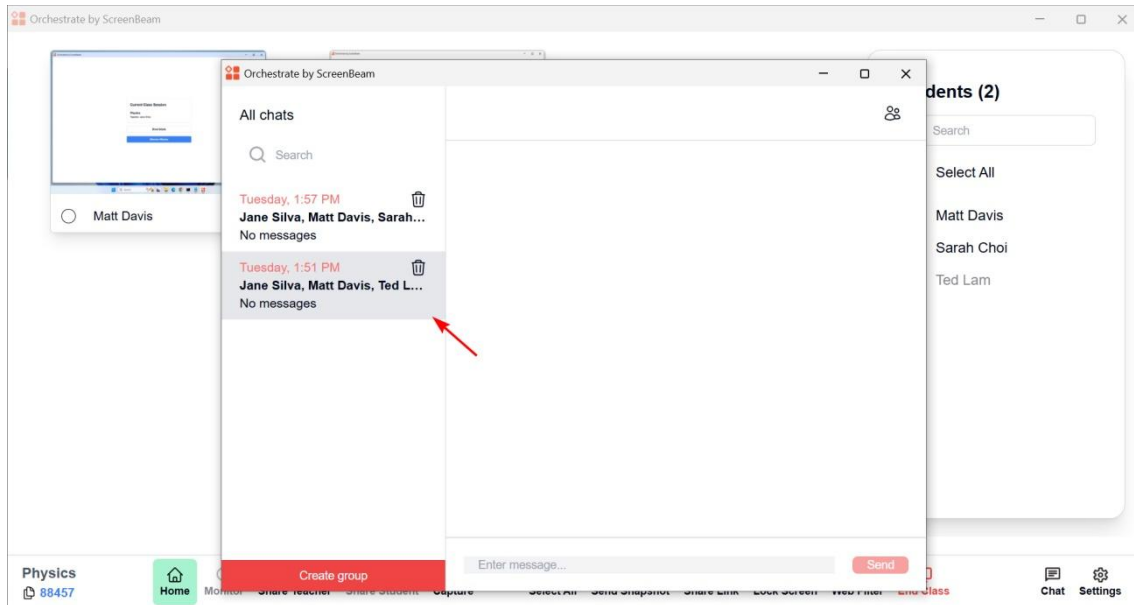
4. A chat group will be created.



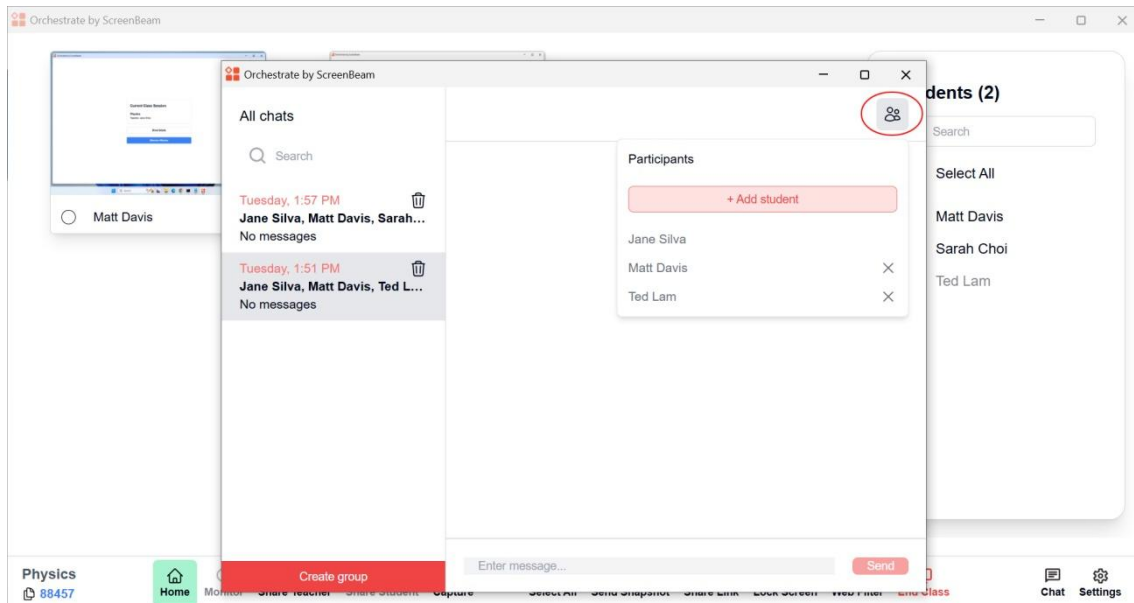
3.8.3 Starting a Chat

To start a chat, follow this procedure:

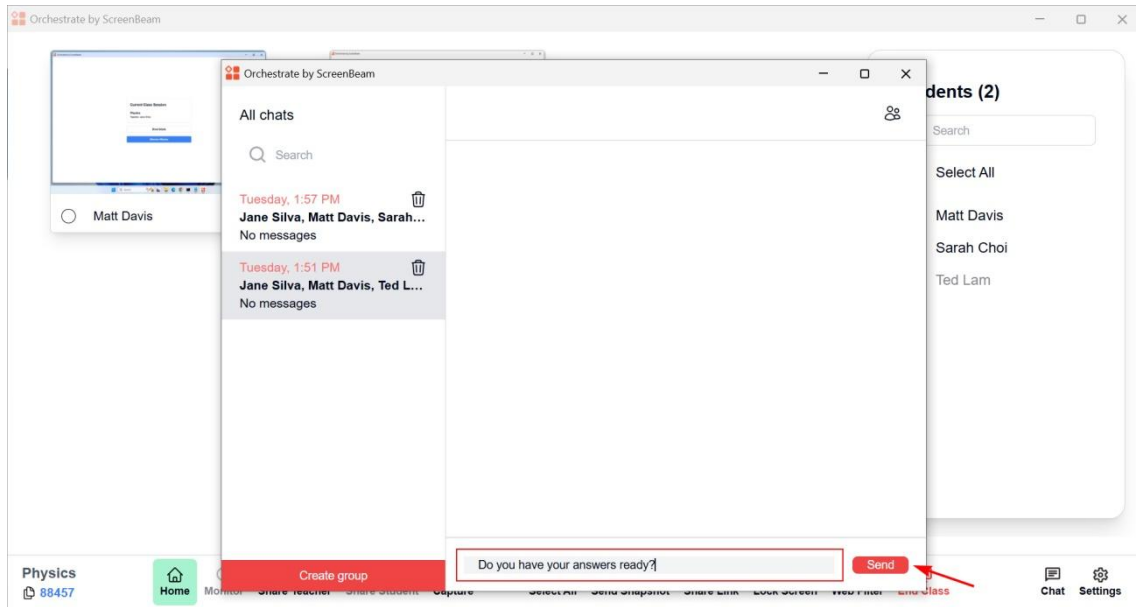
1. Ensure that you have created a chat group.
2. Select a chat group if multiple chat groups are created.



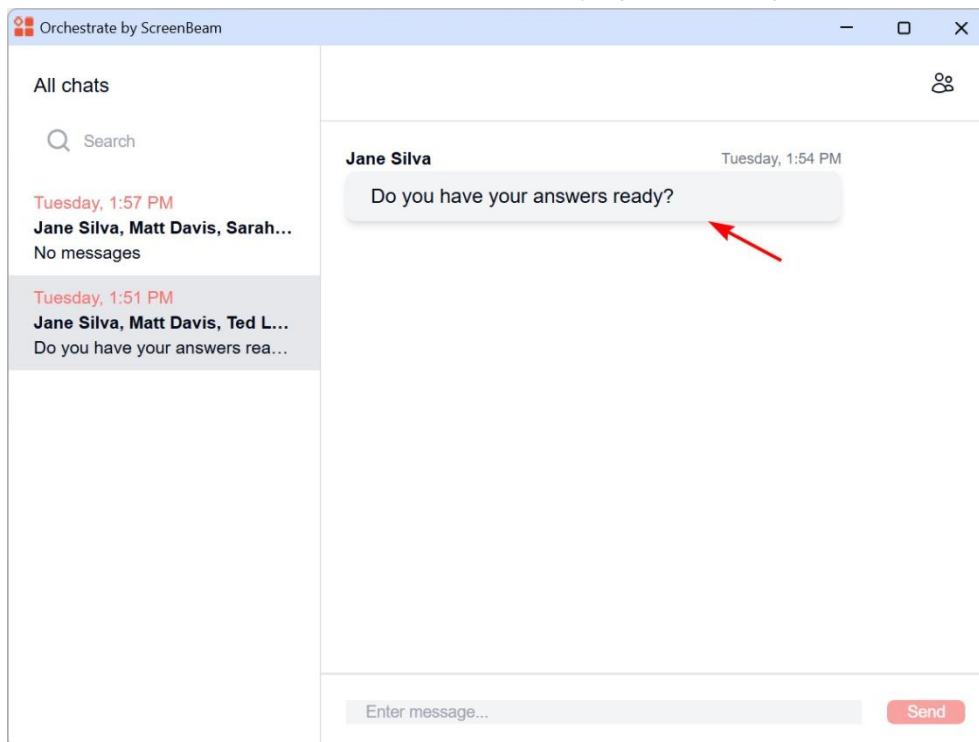
Note: To check the members of a group, click the group to select it, and then click the Members icon in the upper right corner of the chat window. Members of the group are displayed in the **Participants** window.



Type a message in the **Enter message** box and click the **Send** button. The message will be sent to all students in the group.



On a student PC, a chat window will open displaying the message from the teacher.



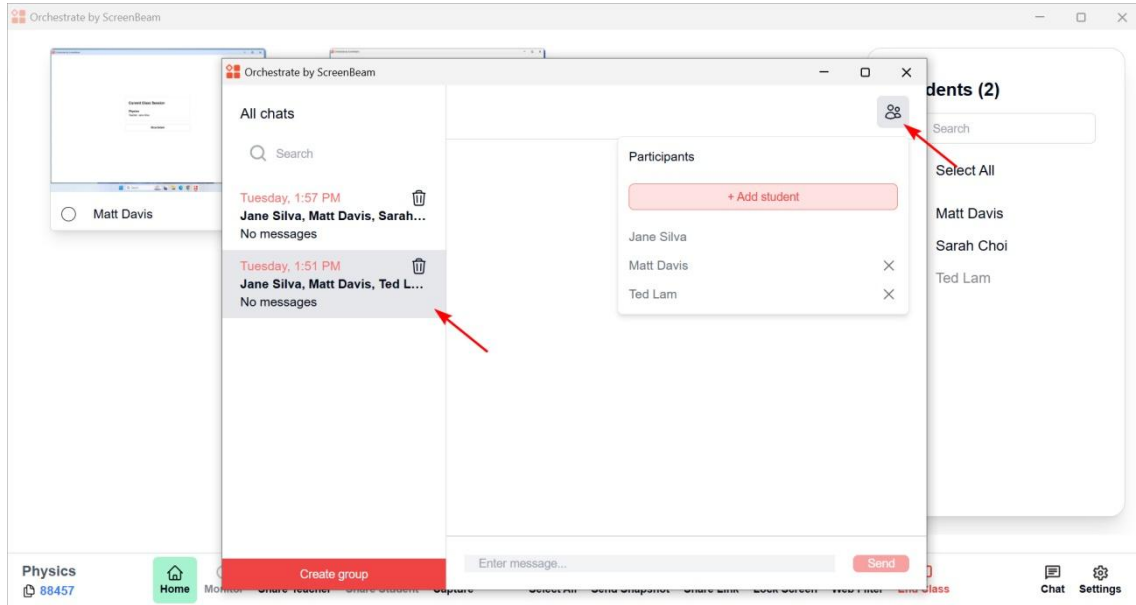
Note: Currently, the chat history will be cleared after the class session is ended.

3.8.4 Editing a Chat Group

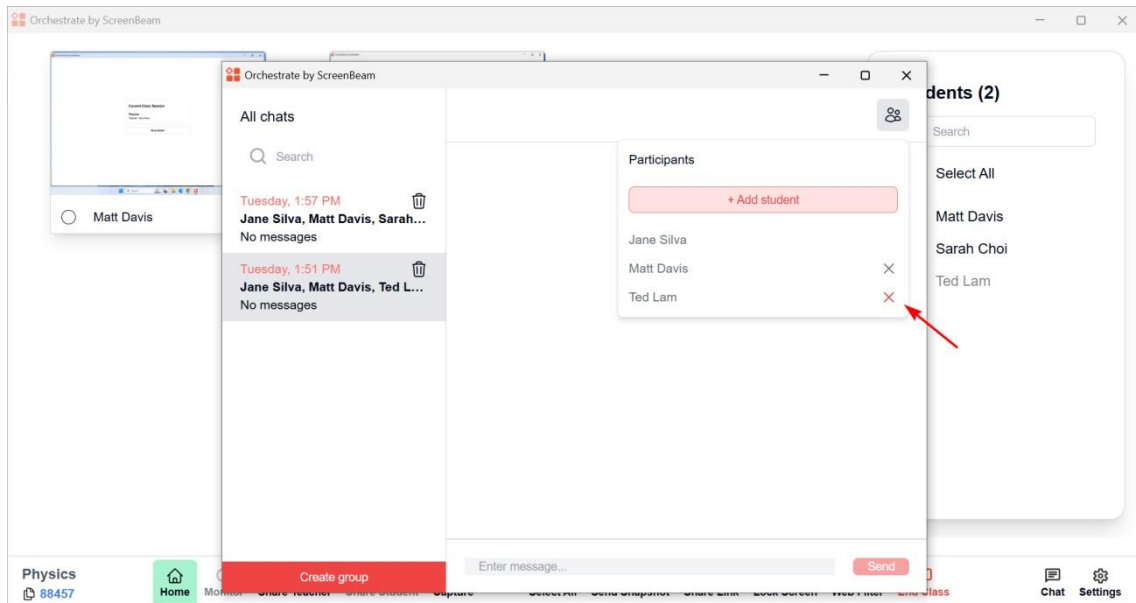
Teachers can change the members of a chat group.

To edit a chat group, follow the procedure below:

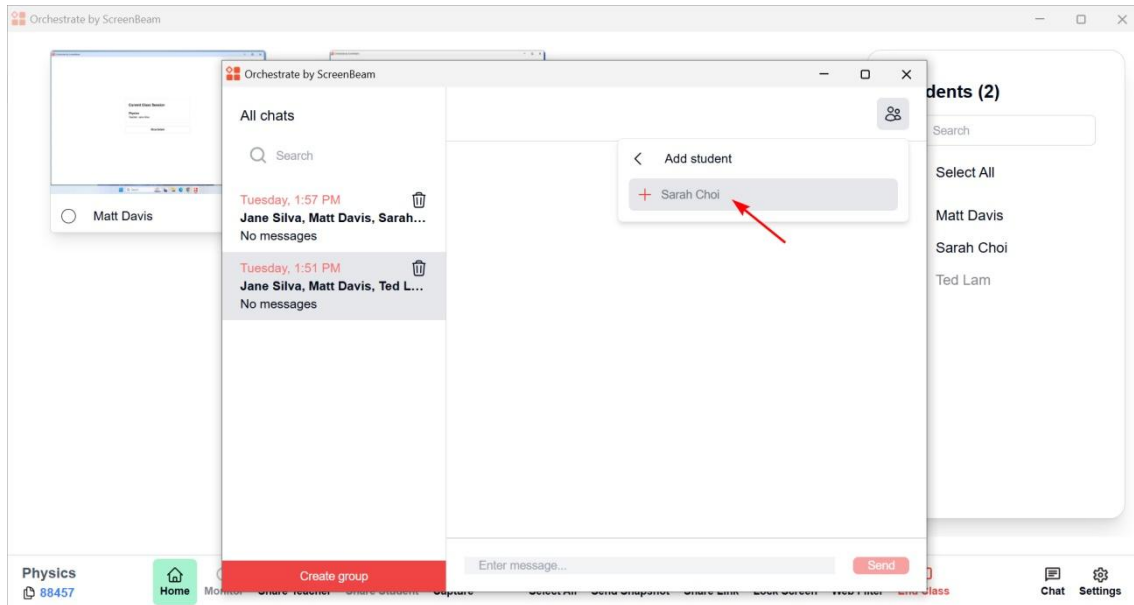
1. Select a chat group, and then click on the Members icon in the upper right corner of the chat window. The **Participants** window will appear.



2. On the **Participants** window, click the cross icon (X) at the end of a student name to remove that student from the chat group



Click **Add Student** to open the **Add Student** window and then click the student's name to add them to the chat group.



3. After you have finished adding or removing students, click outside of the **Participants** window to close the window.

3.9 Web Filtering

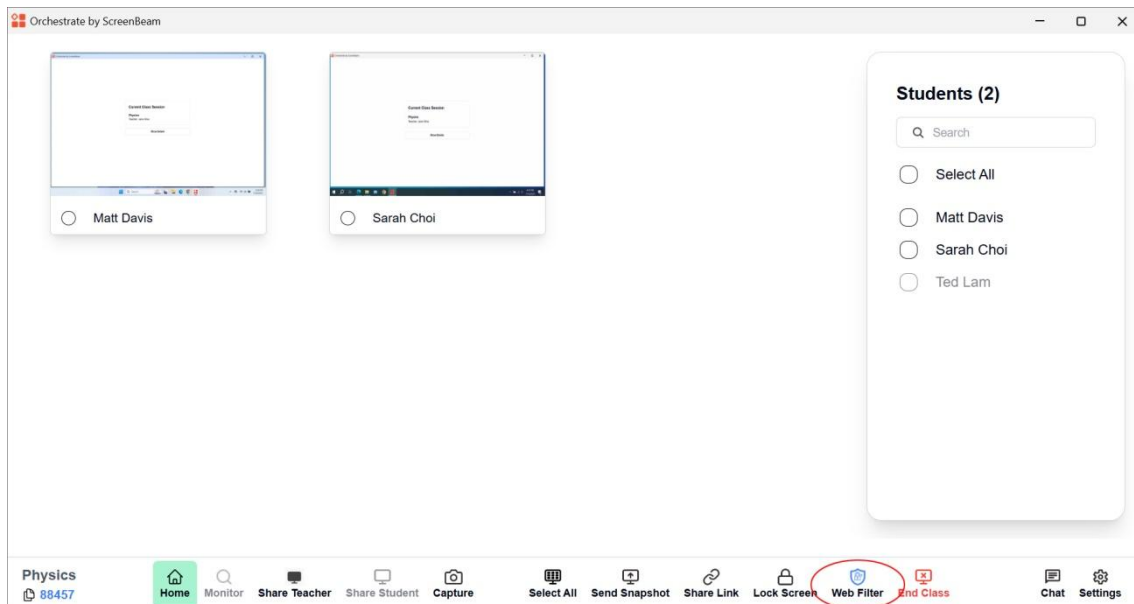
The Web Filtering feature allows teachers to manage student access to websites during an Orchestrated class. The filters no longer apply once a class session is terminated or if a student disconnects from it.

3.9.1 Enabling Web Filtering

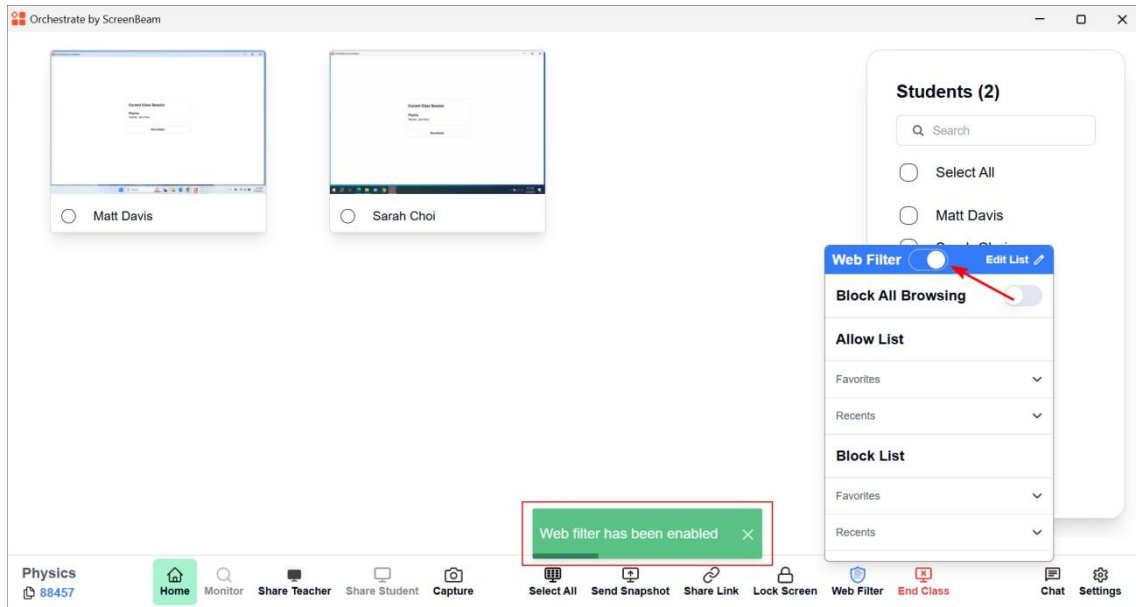
Web Filtering is turned off by default when a class starts.

To enable the Web Filtering, follow the procedure below:

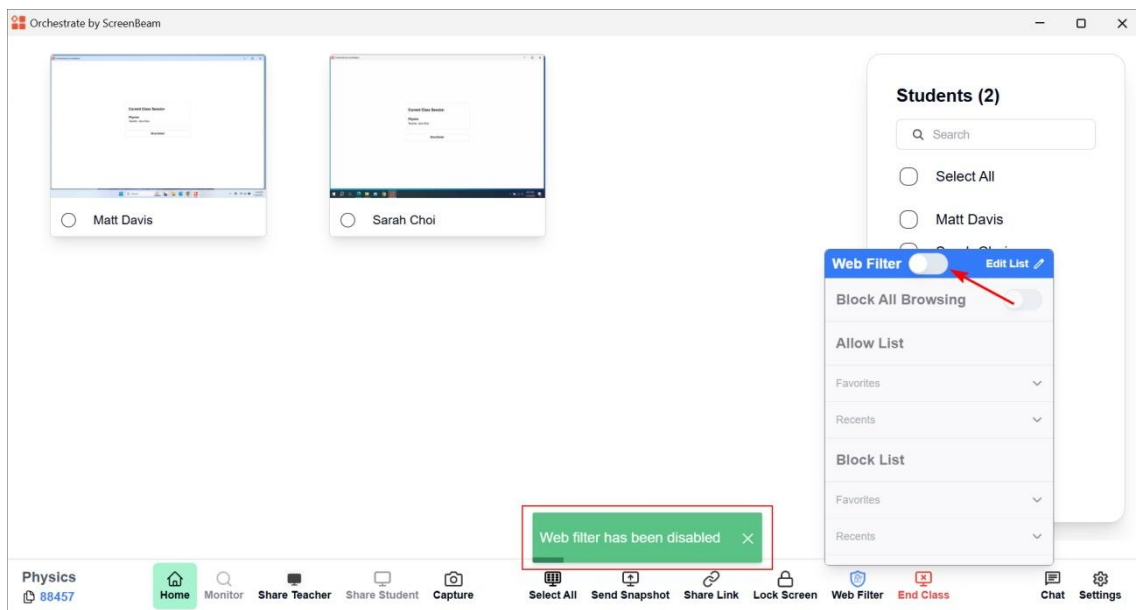
1. Click the **Web Filter** button on the toolbar of the teacher's Home page. The shortcut menu of the Web Filtering feature will appear.



2. Click the **Web Filter** toggle switch on the shortcut menu to enable filtering.



Note: Click the switch again to disable filtering.

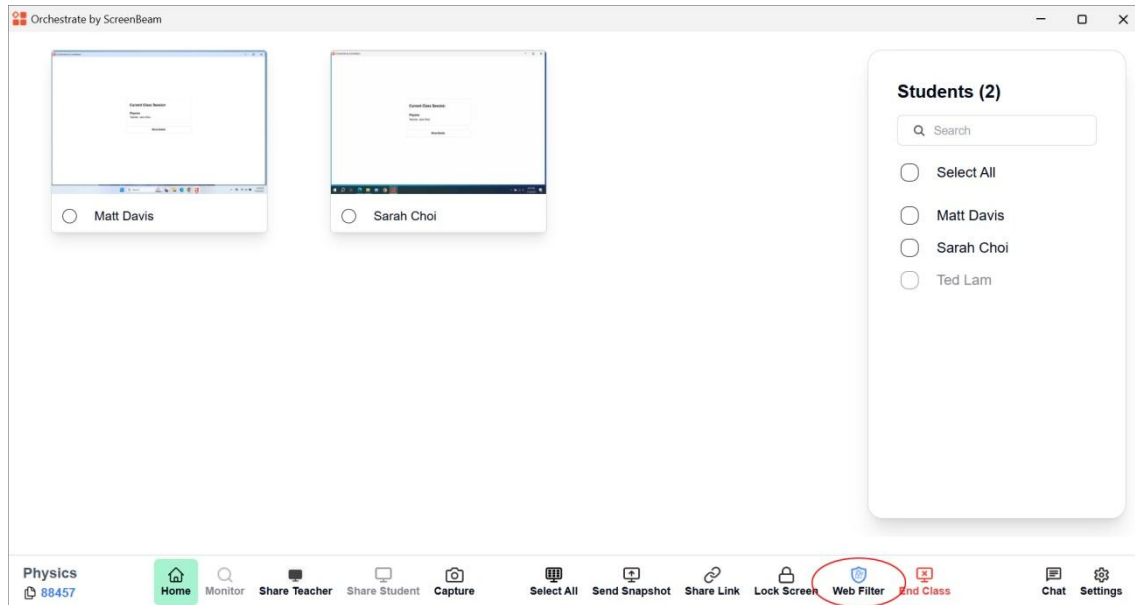


3.9.2 Block All Browsing

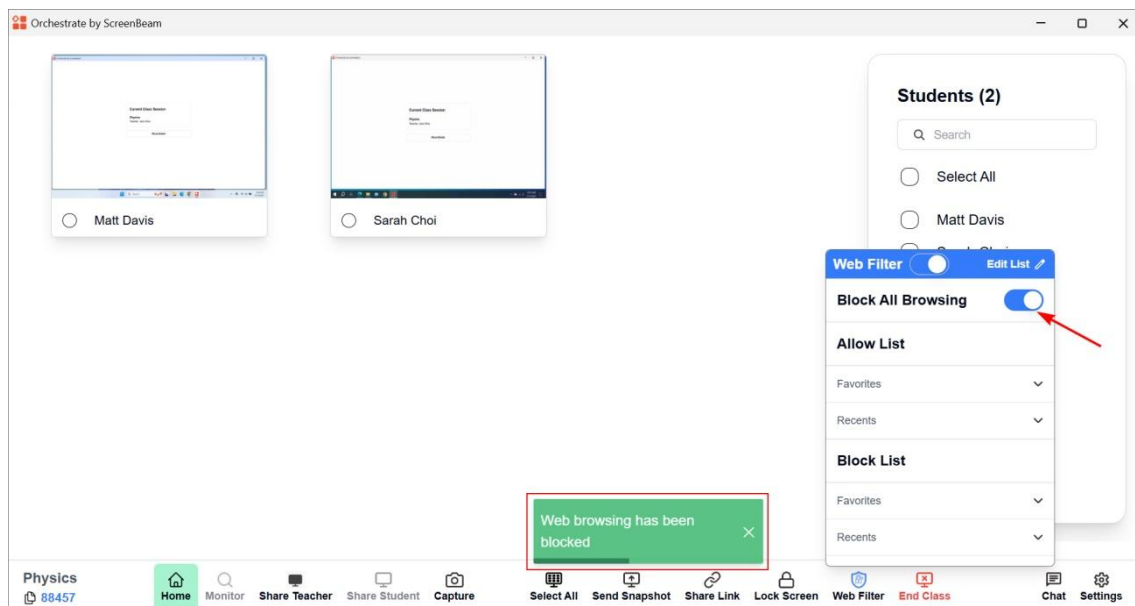
The Block All Browsing feature allows teachers to block all web browsing on all student devices in the class.

To enable **Block All Browsing**, follow the procedure below:

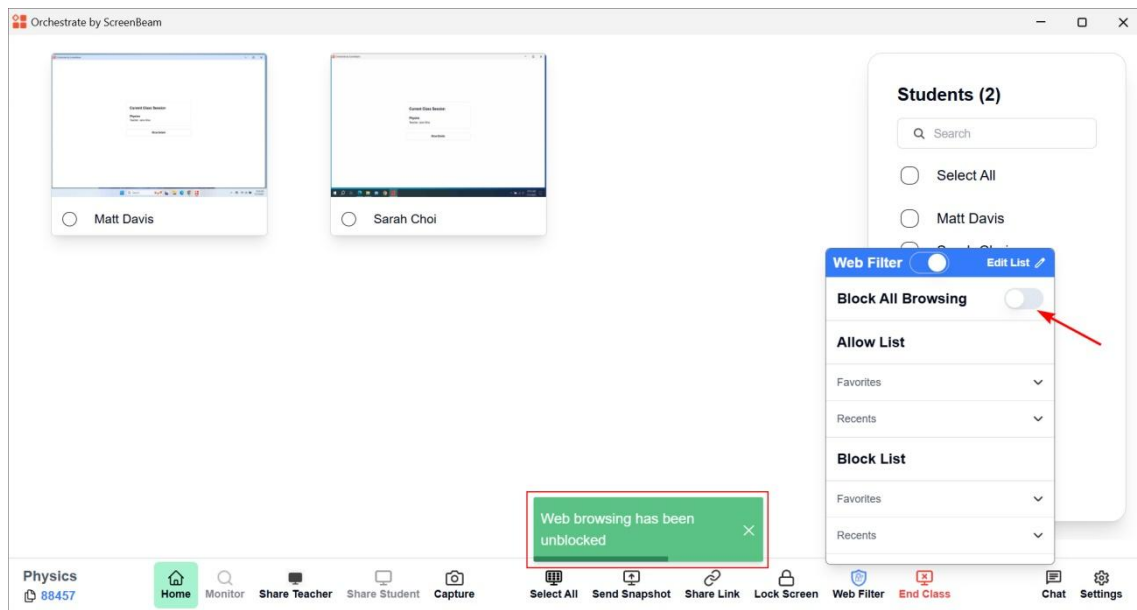
1. Click the **Web Filter** button on the toolbar of the teacher's Home page. The shortcut menu of the Web Filter feature will appear.



2. Turn **Web Filter** on if it is disabled.
3. Click the **Block All Browsing** toggle switch on the shortcut menu to turn the feature on. Website browsing is not allowed on all student devices in the class after this feature is enabled.



Note: Click the switch again to disable the feature. Web browsing is now managed by the established filter rules.



3.9.3 Creating Web Filtering Rules

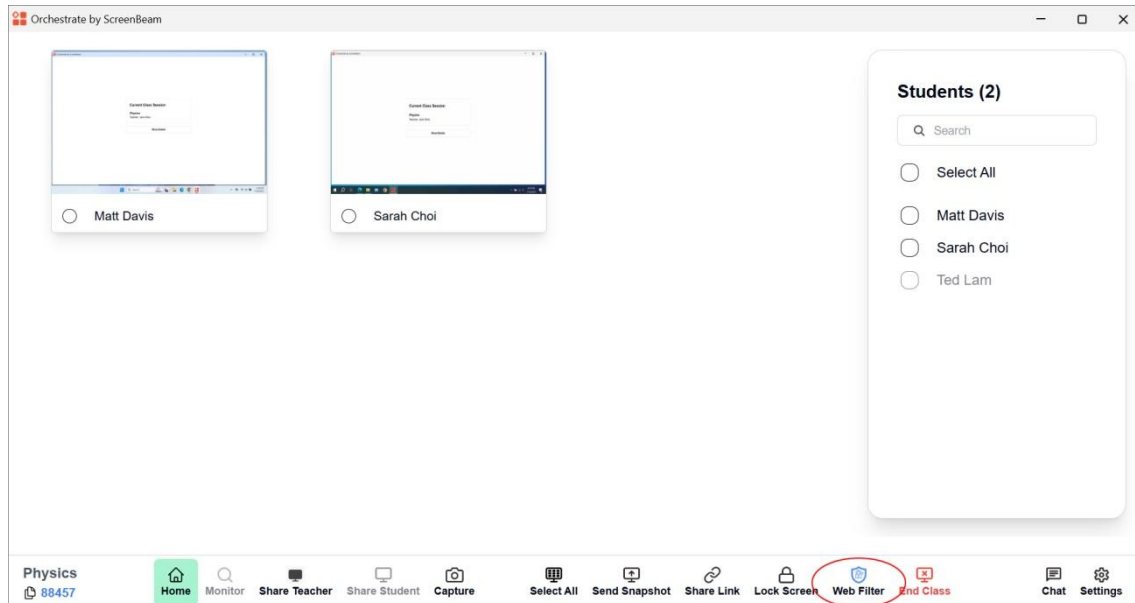
There are two kinds of web filtering rules: **Allow Lists and Block Lists**.

The **Allow List** grants students browsing access to URLs defined by the rules.

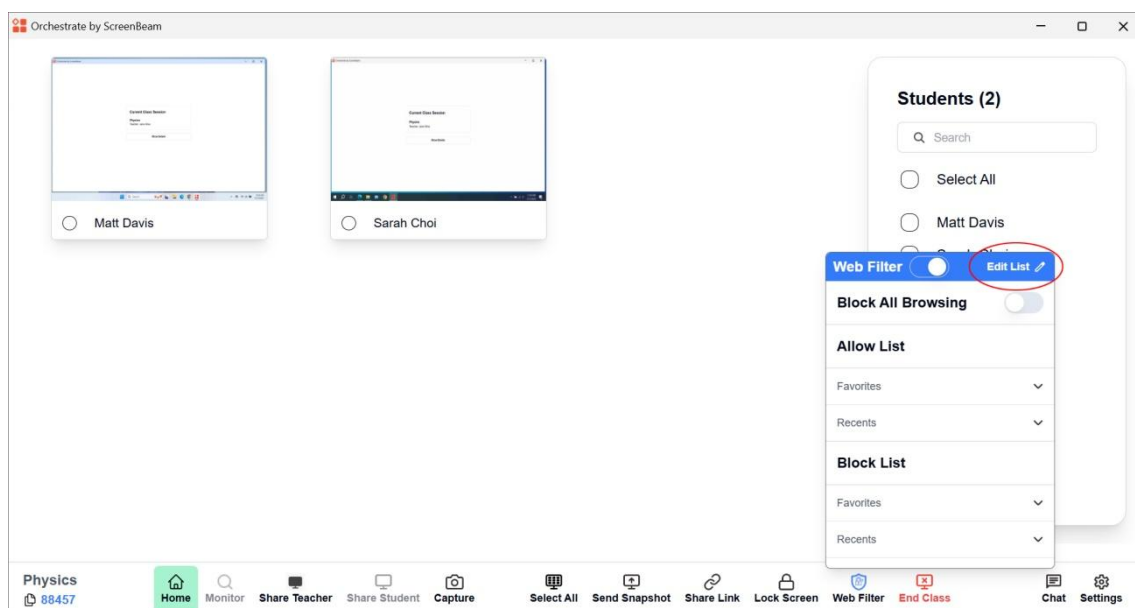
The **Block List** denies students browsing access to URLs defined by the rules.

To create web filtering rules, follow the procedure below:

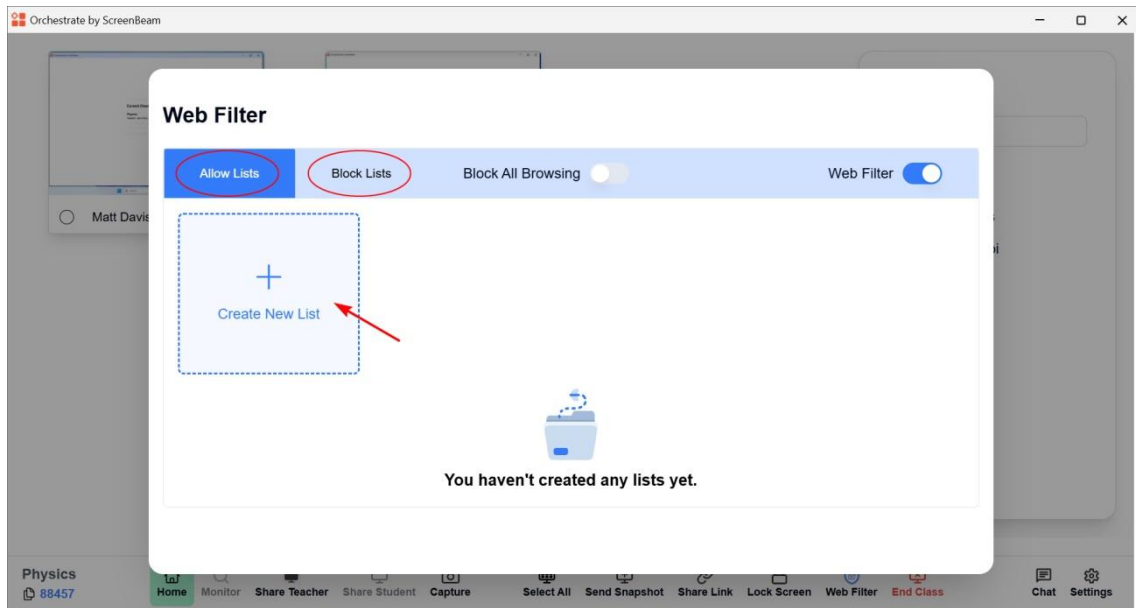
1. Click the **Web Filter** button on the toolbar of the teacher's Home page. The shortcut menu of the Web Filter feature will appear.



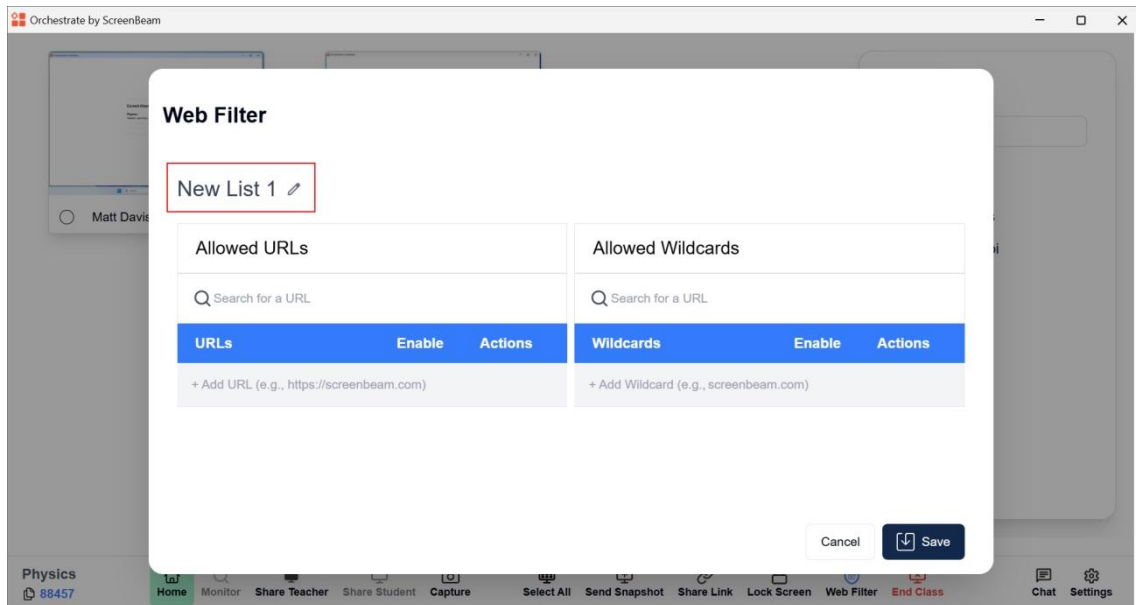
2. Turn **Web Filter** on if it is disabled.
3. Click **Edit List** on the shortcut menu of the Web Filter feature to open the Web Filter's main menu.



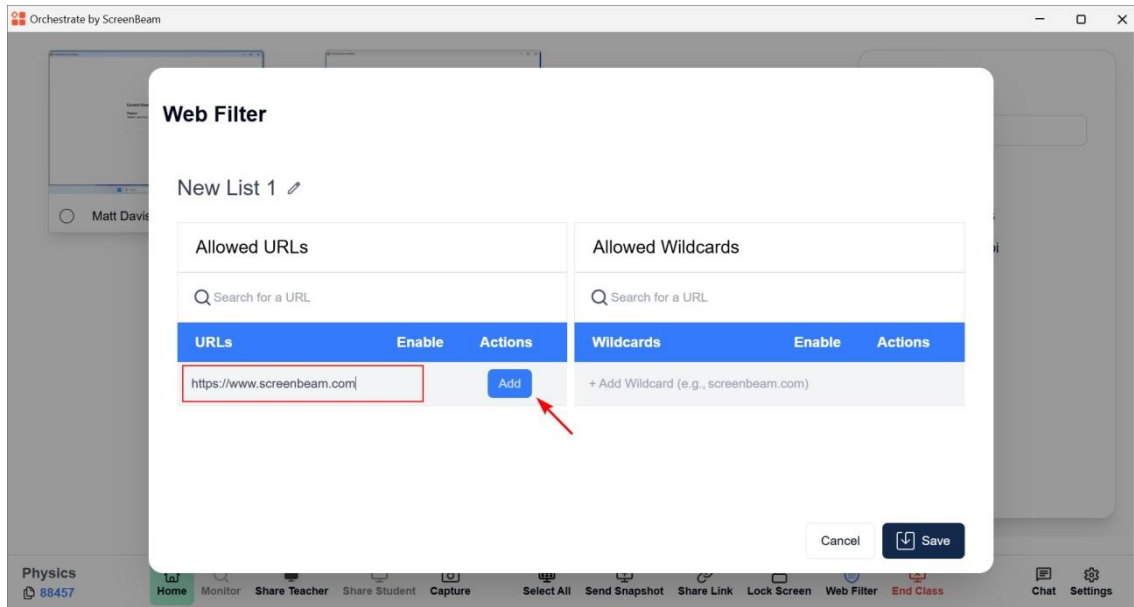
4. Select **Allow List** or **Block List**, and then click **Create New List**.



5. On the new list page, click on the list title to edit it (if necessary).

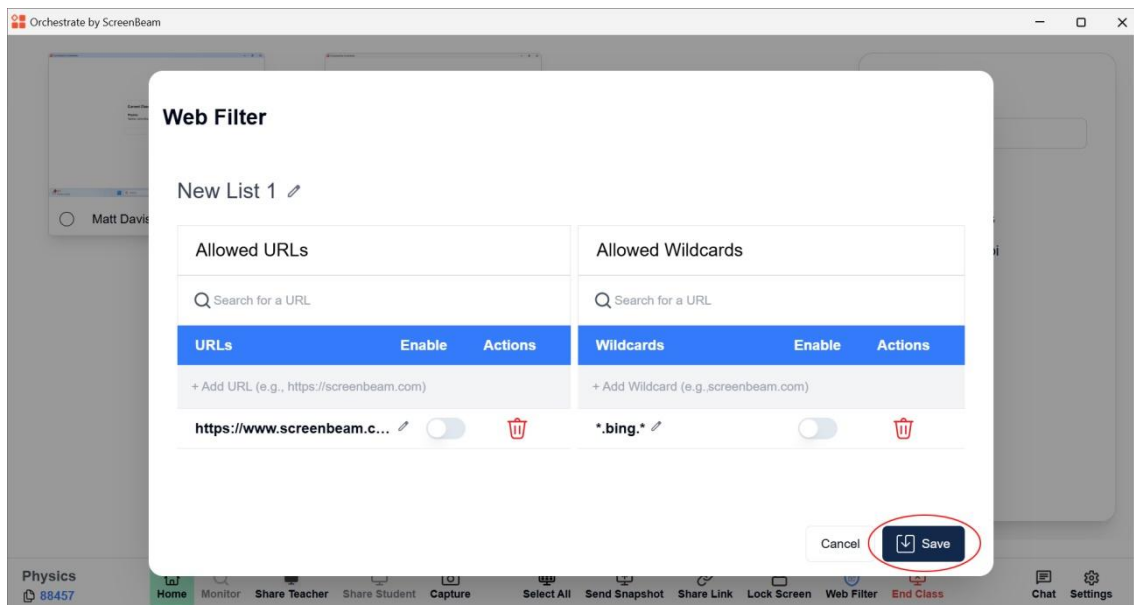


6. Type a URL into the entry box under the Allowed/Blocked URLs section or in the Allowed/Blocked Wildcard section. Click the **Add** button. Repeat to add more entries.

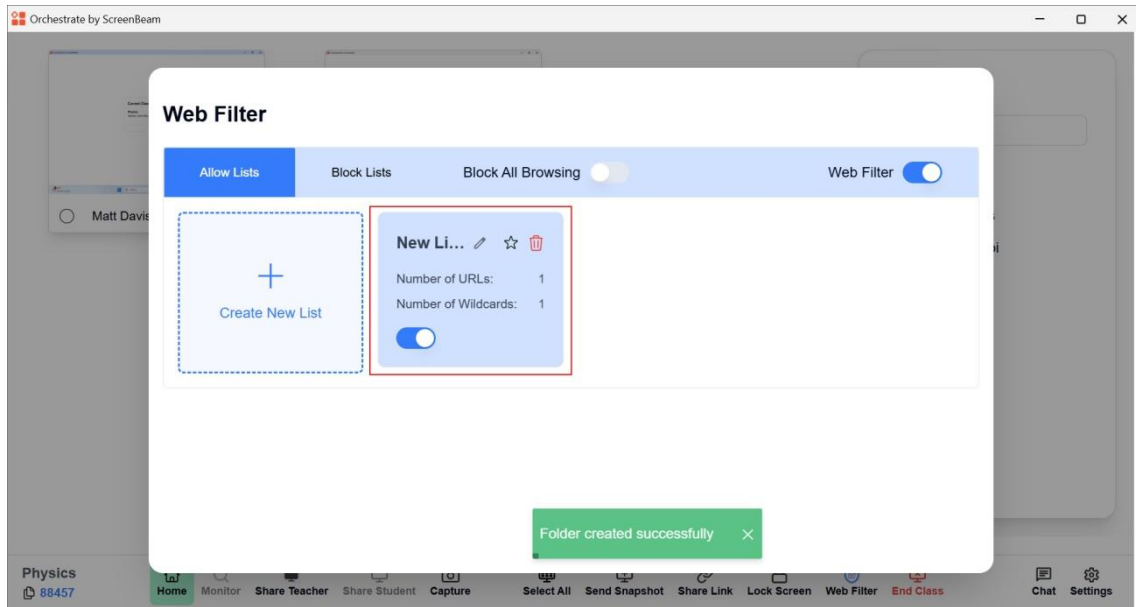


7. Click the **Save** button to save your rules after they are added. Newly added rules will be enabled after they are saved.

Note: Newly added rules will be lost if not saved.



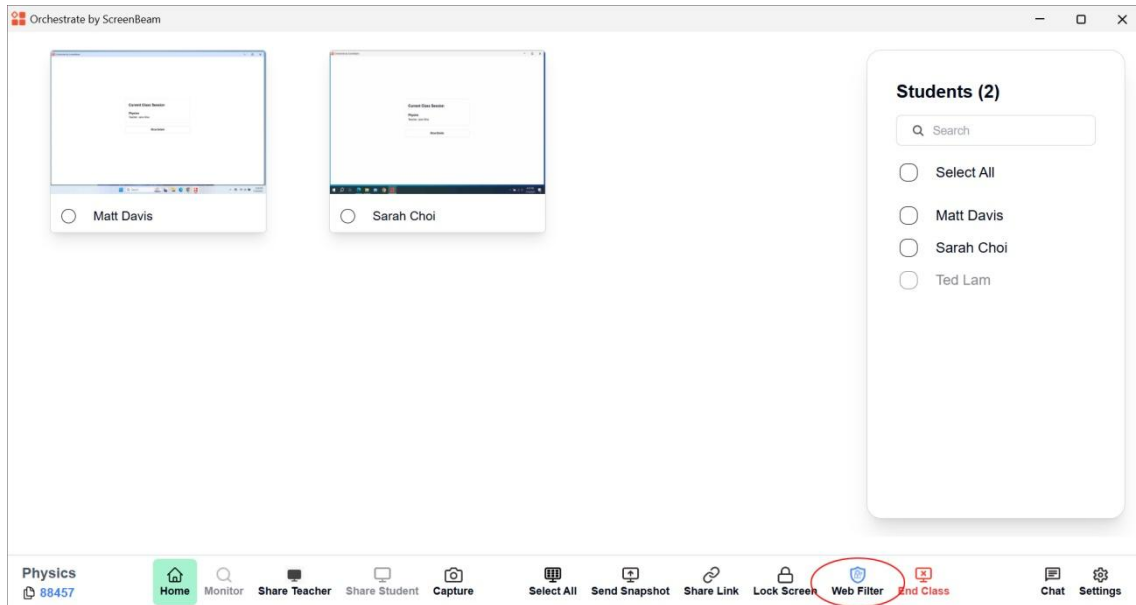
8. The newly added list will be enabled and shown in the Web Filter's main menu page.



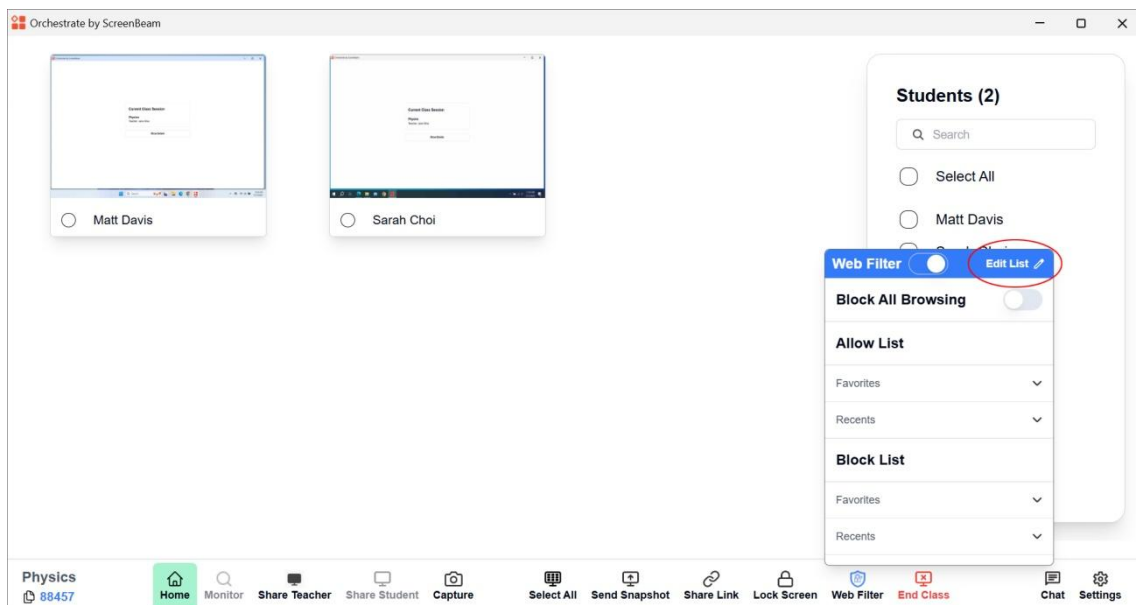
3.9.4 Editing Web Filtering Rules

To edit web filtering rules, follow the procedure below:

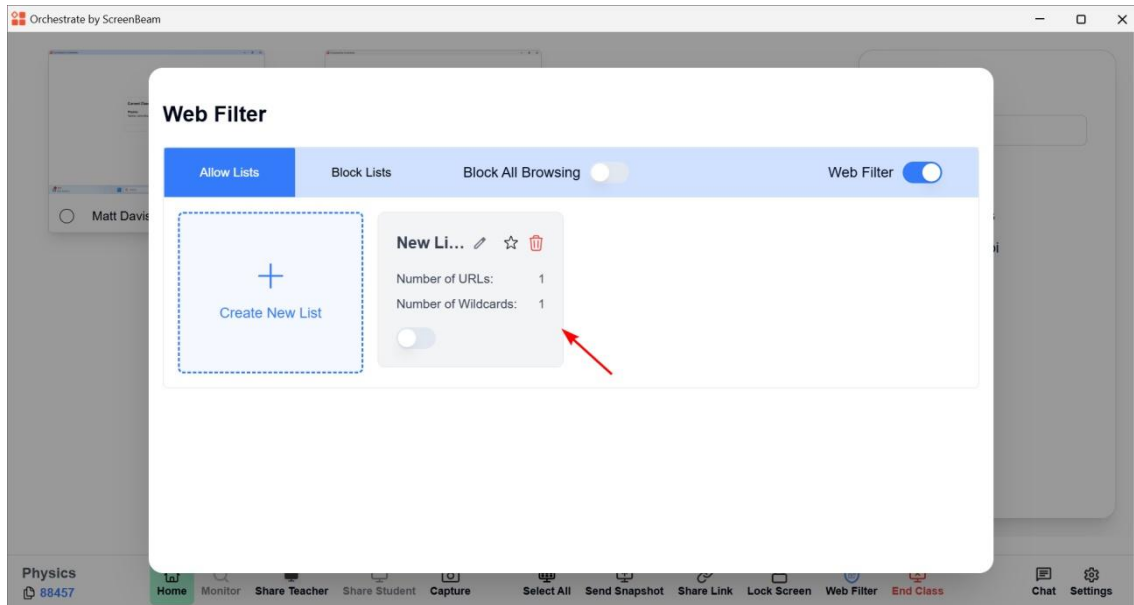
1. Click the **Web Filter** button on the toolbar of the teacher's Home page. The shortcut menu of the Web Filter feature will appear.



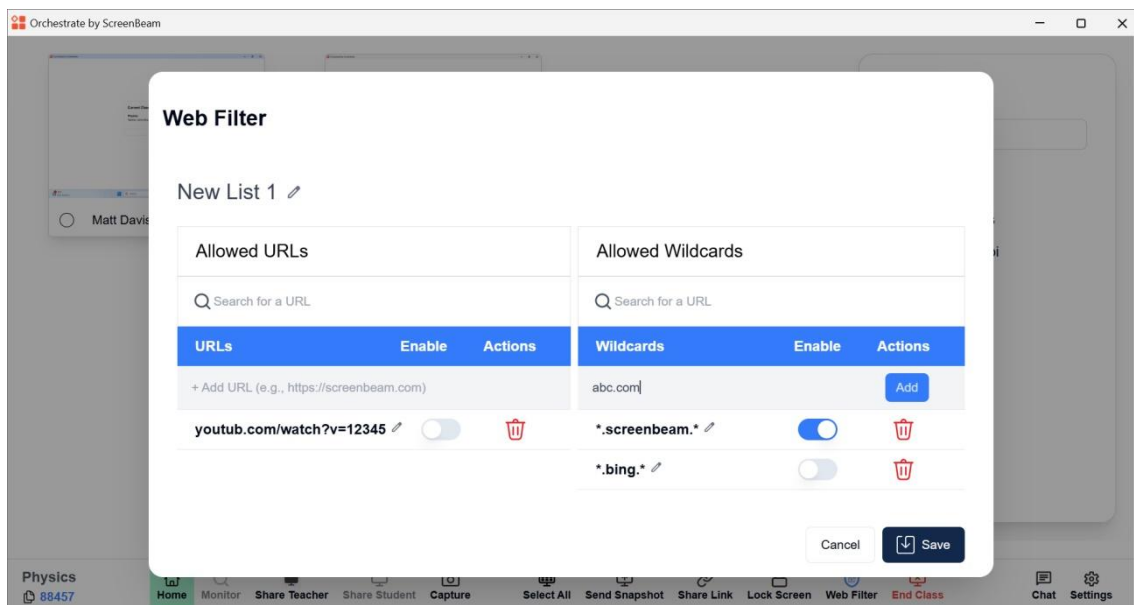
2. Turn **Web Filter** on if it is disabled.
3. Click **Edit List** on the shortcut menu of the Web Filter feature to open the Web Filter's main menu.



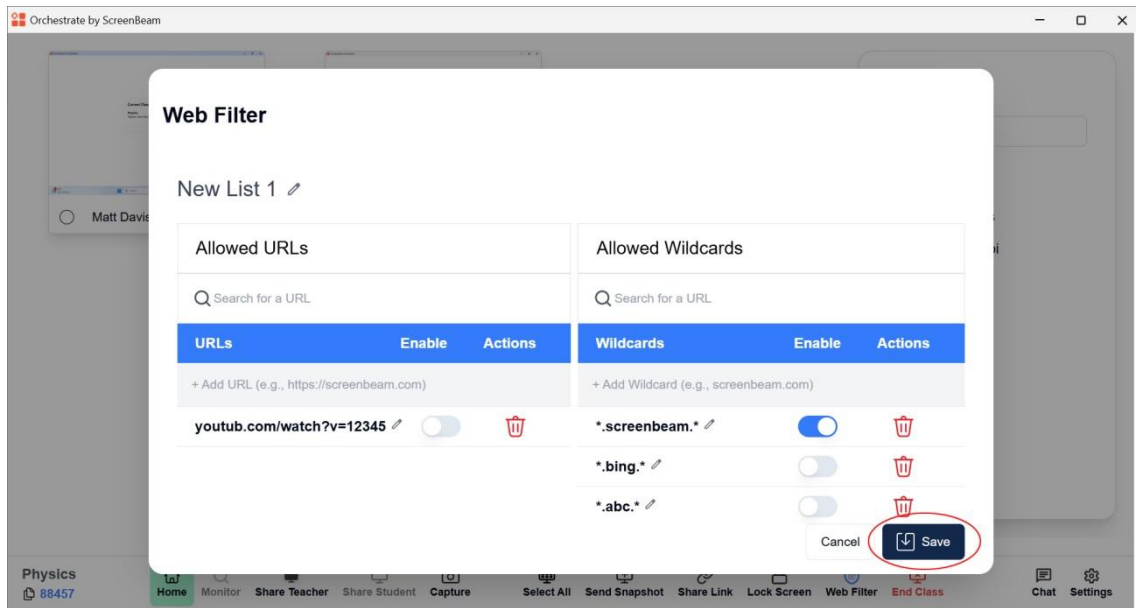
4. Select **Allow List** or **Block List** on the Web Filter's main menu and then double-click an existing list to open it.



5. On the list details page, edit rules as necessary.
- Click on the pen icon next to the list title and then edit the title.
 - Click on the pen icon next to the URL text and then edit the URL or wildcard.
 - Click the toggle switch at the end of a URL or wildcard to enable or disable the URL or wildcard.
 - Click the Delete button (the trash bin icon) at the end of a URL or wildcard to delete the URL or wildcard.
 - Add new rules (URLs) by typing new URLs in the Add URL / Add Wildcard box.



6. Click the **Save** button to save your settings.

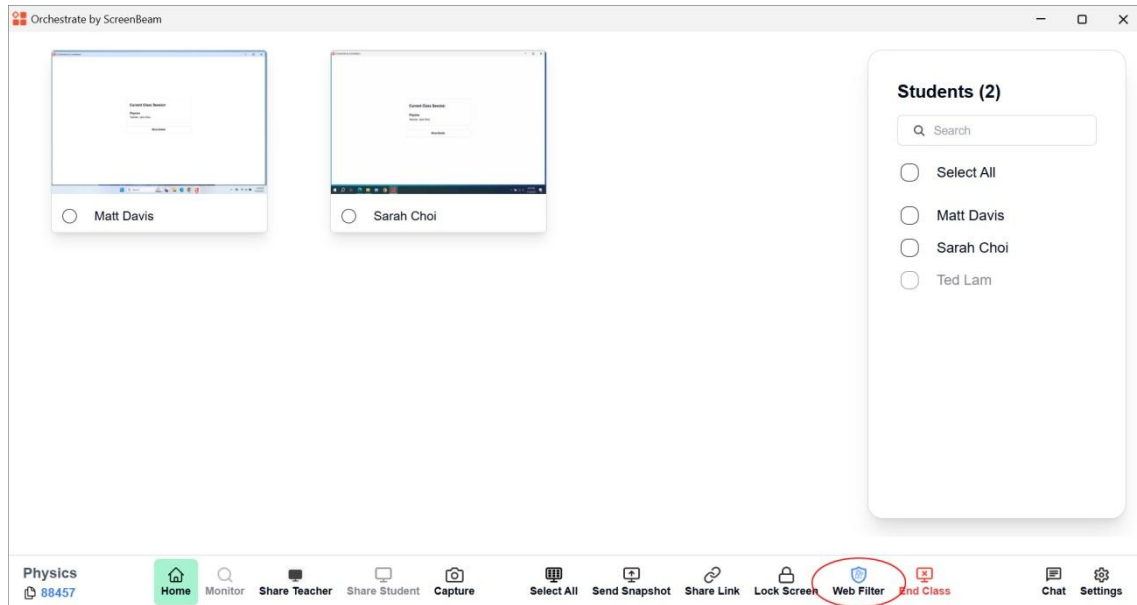


3.9.5 Enabling Web Filtering Rules

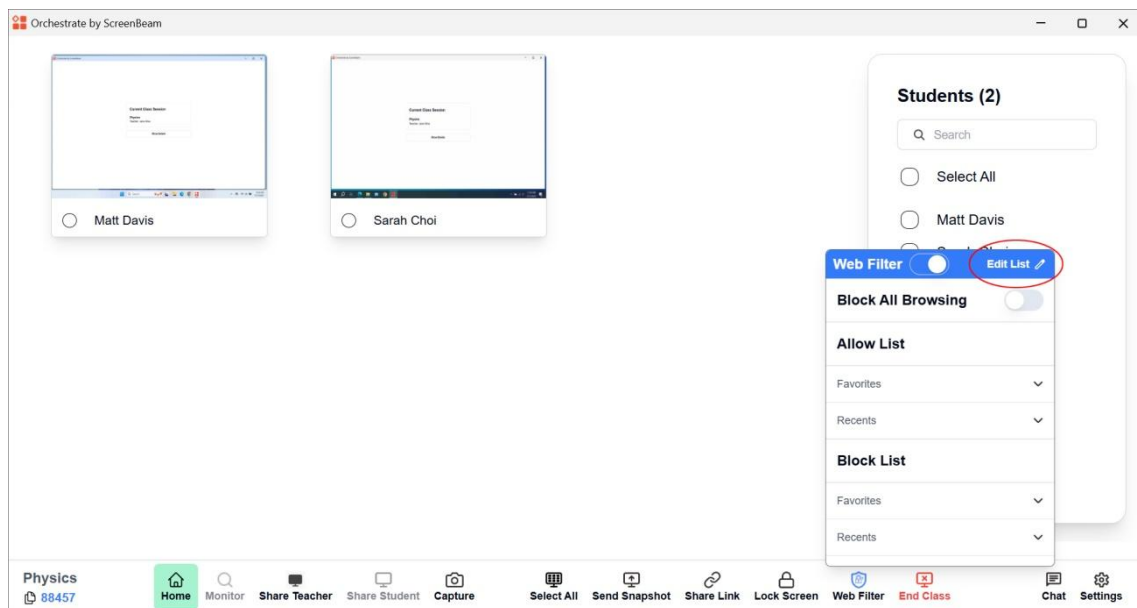
A specific rule or a set of rules can be enabled or disabled as required.

To enable or disable filtering rules, follow the procedure below:

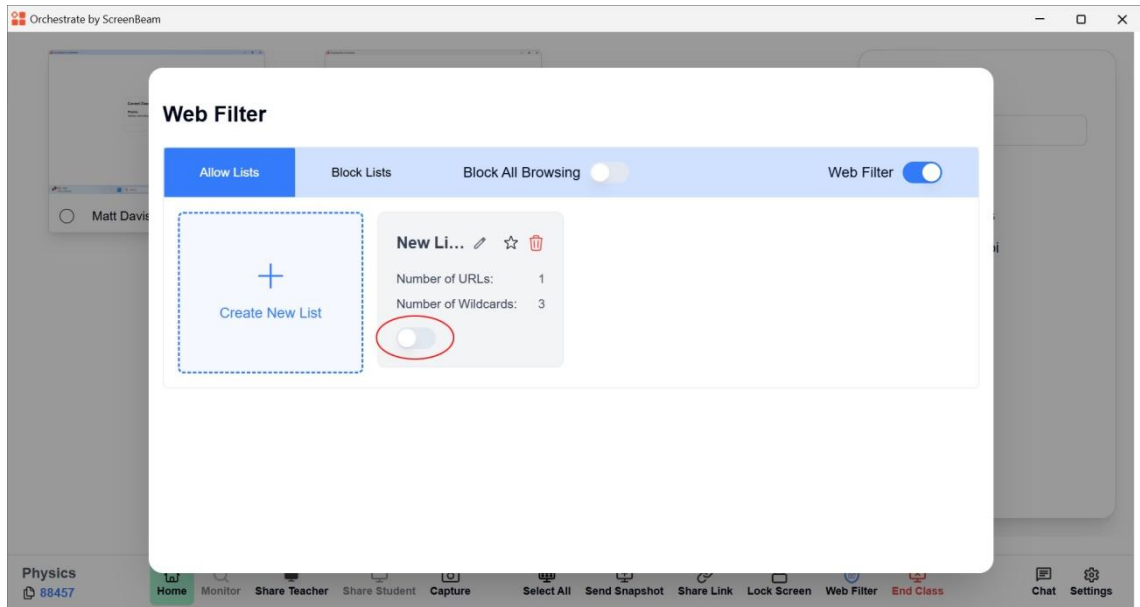
1. Click the **Web Filter** button on the toolbar of the teacher's Home page. The shortcut menu of the Web Filter feature will appear.



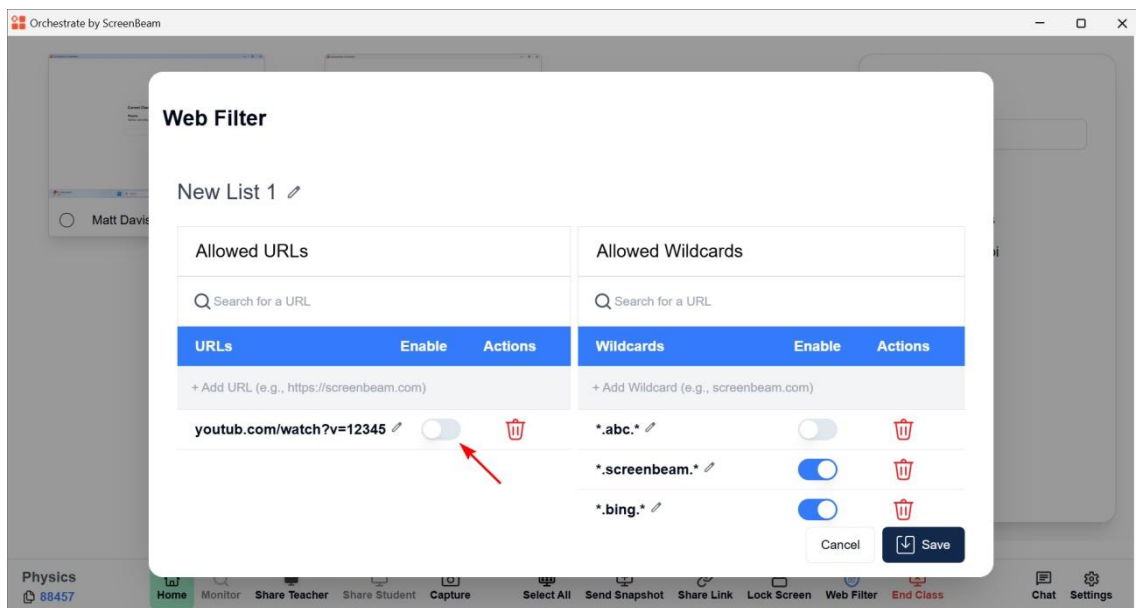
2. Turn **Web Filter** on if it is disabled.
3. Click **Edit List** on the shortcut menu of the Web Filter feature to open the Web Filter's main menu.



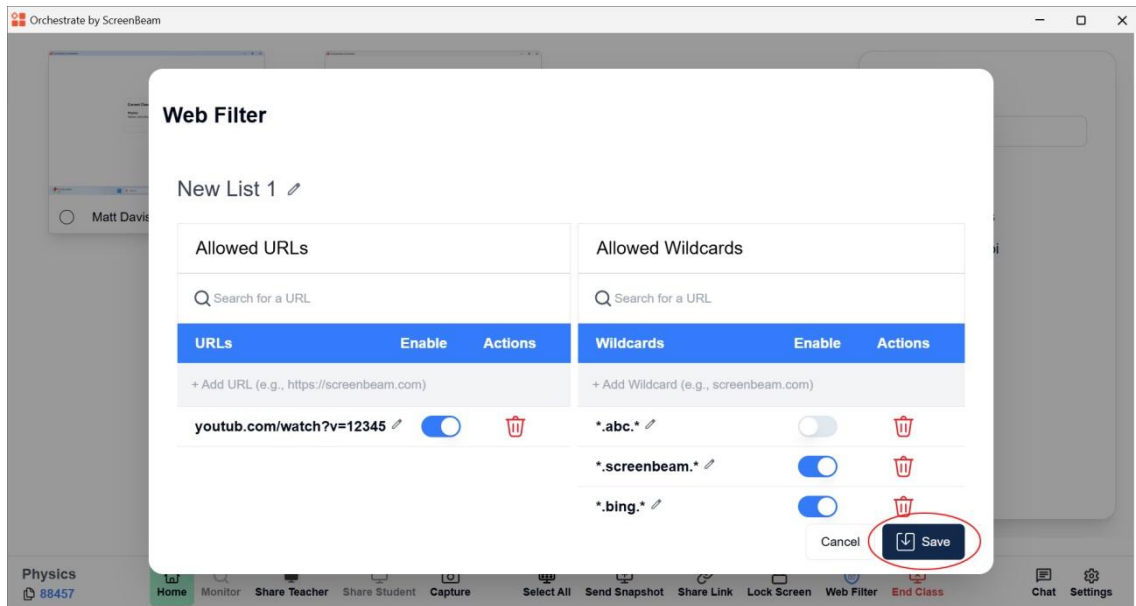
4. On the main menu, select **Allow List** or **Block List**, and then click the toggle switch on a list to enable or disable a specific list.



5. If you want to enable or disable a specific rule, find your list, double-click on it, and click the toggle switch at the end of a URL or wildcard to enable or disable it.

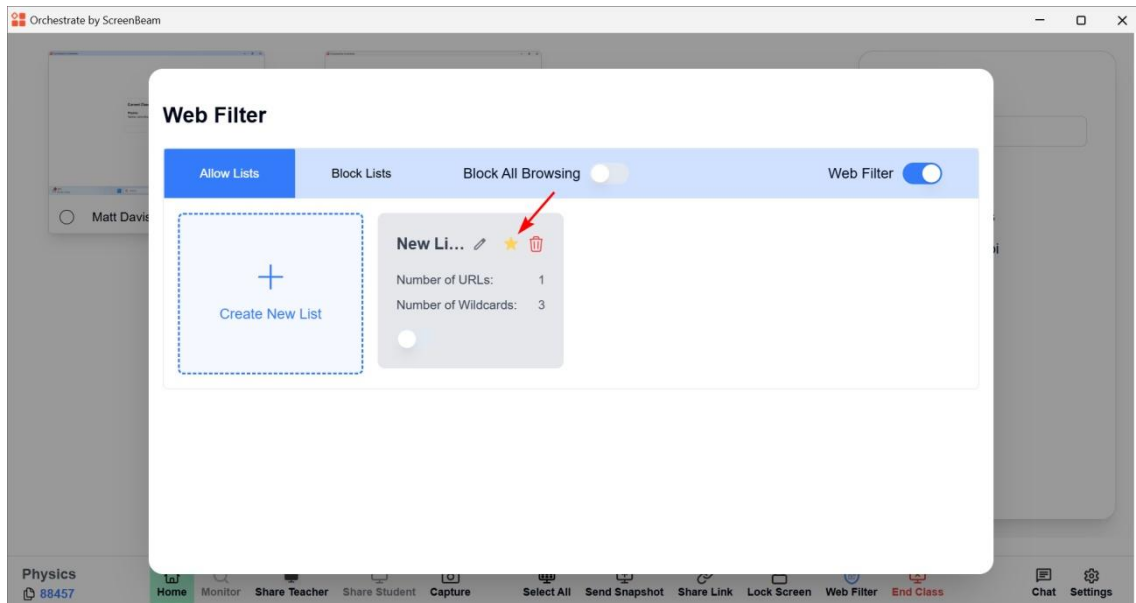


6. Click the **Save** button to save your settings.



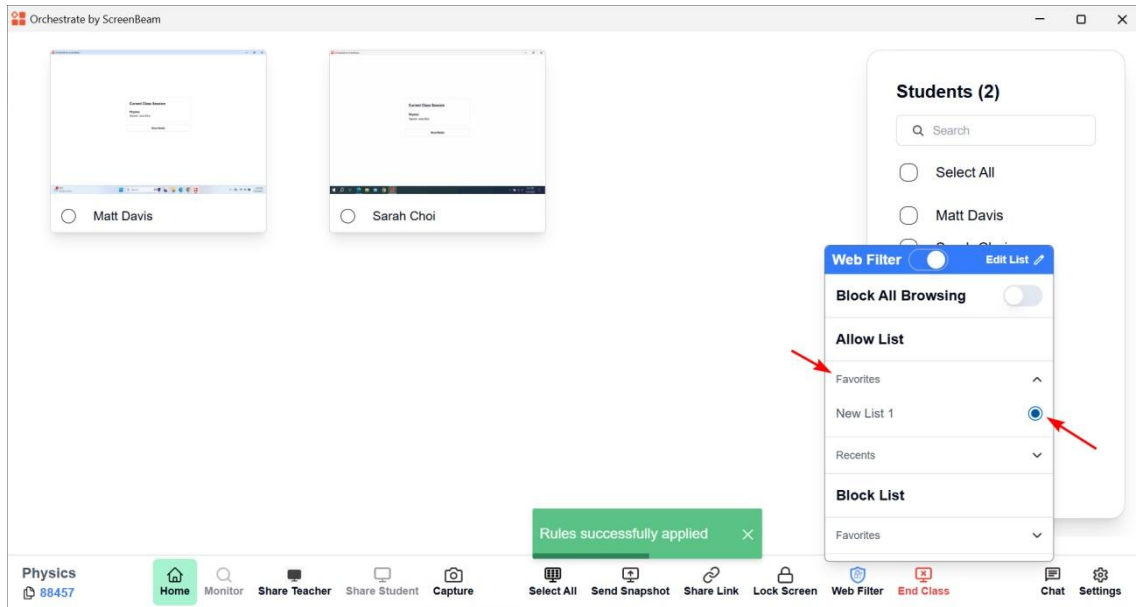
Teachers can also enable an allow / block list through Favorites and Recents in the Web Filter's shortcut menu. To do this, follow the procedure below:

1. Make sure that the allow / block list is added to Favorites. Click the star on a list to add it to Favorites.



2. Make sure Web Filter is turned on.

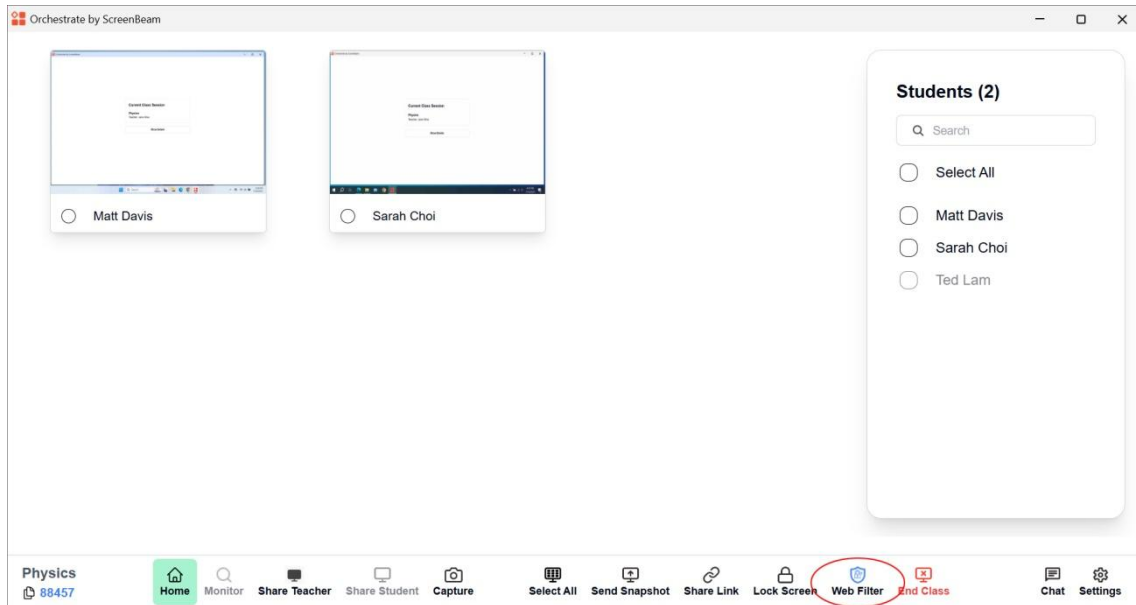
3. Click on Favorites / Recents under the Allow List or Block List in the shortcut menu to show the lists, and then click the toggle switch at the end of list.



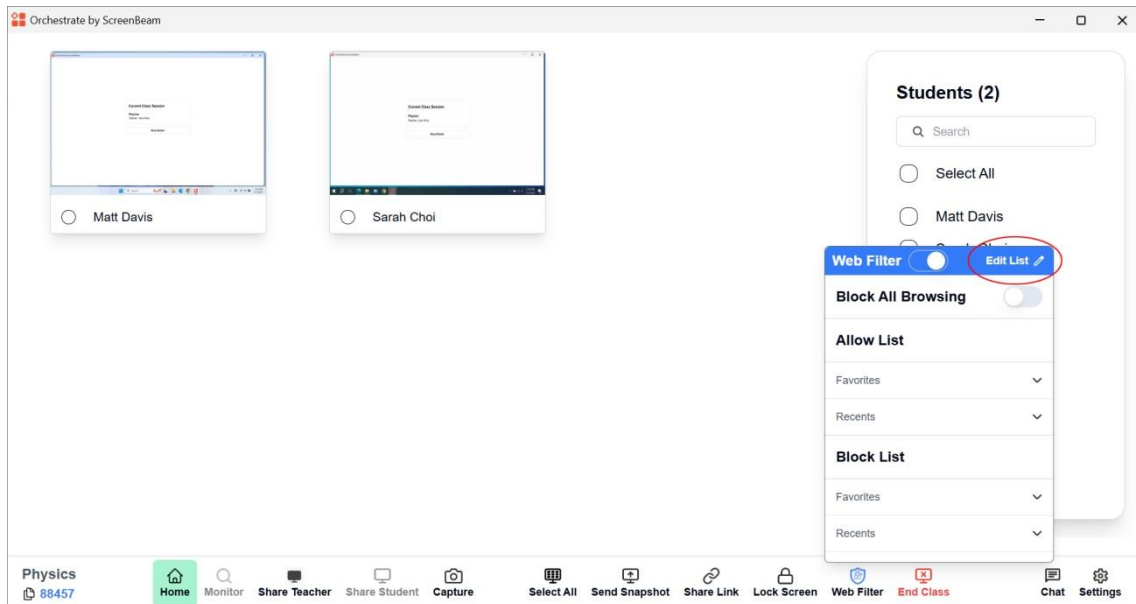
3.9.6 Deleting Web Filtering Rules

To delete web filtering rules, follow the procedure below:

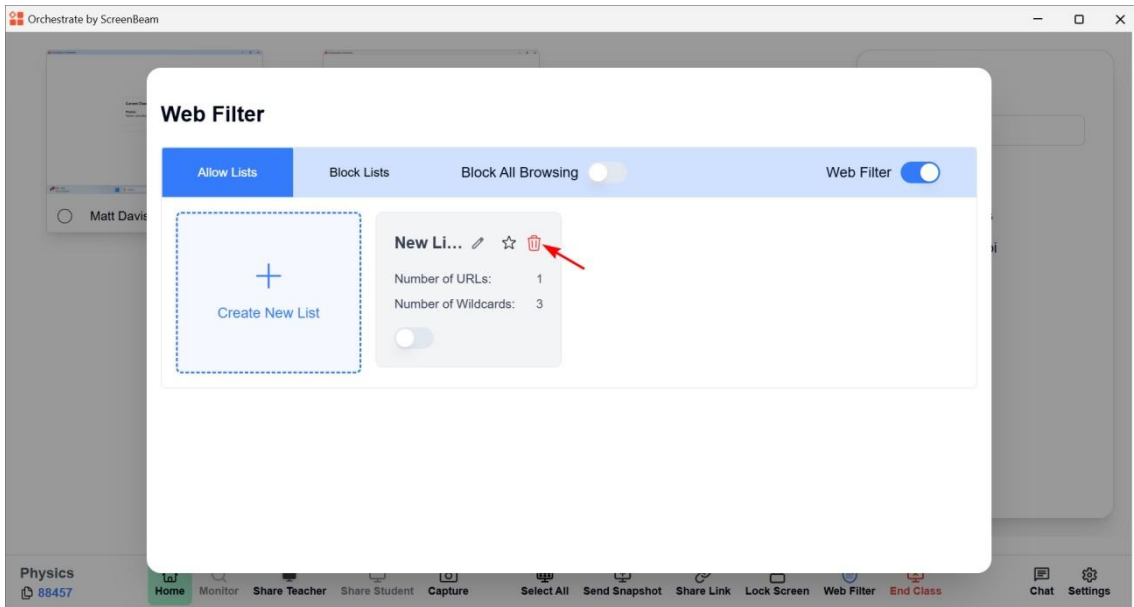
1. Click the **Web Filter** button on the toolbar of the teacher's Home page. The shortcut menu of the Web Filter feature will appear.



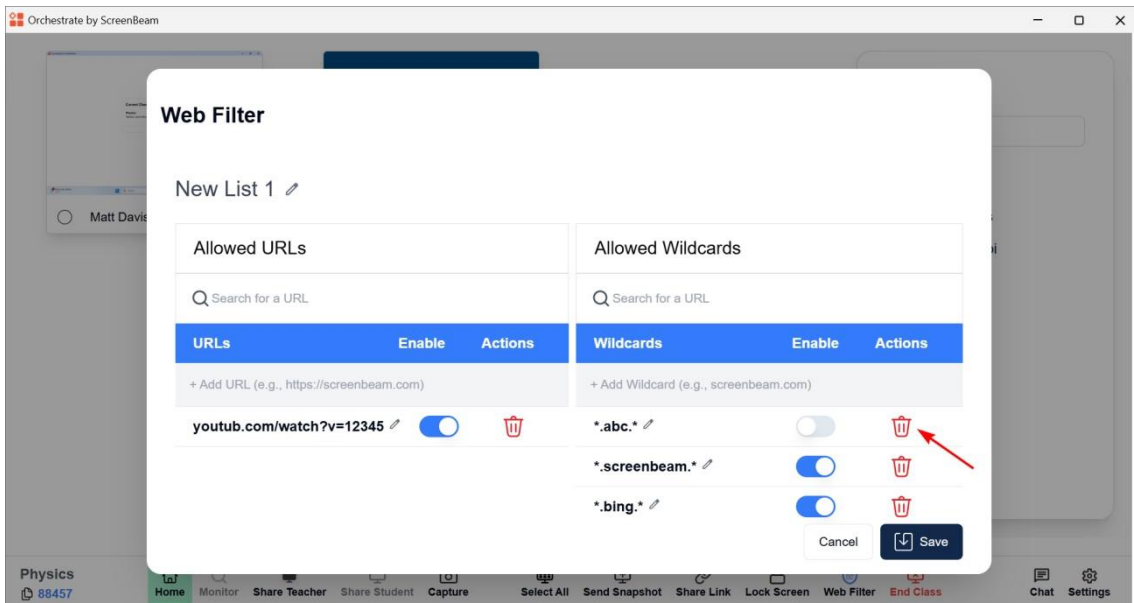
2. Turn **Web Filter** on if it is disabled.
3. Click **Edit List** on the shortcut menu of the Web Filter feature to open the Web Filter's main menu.



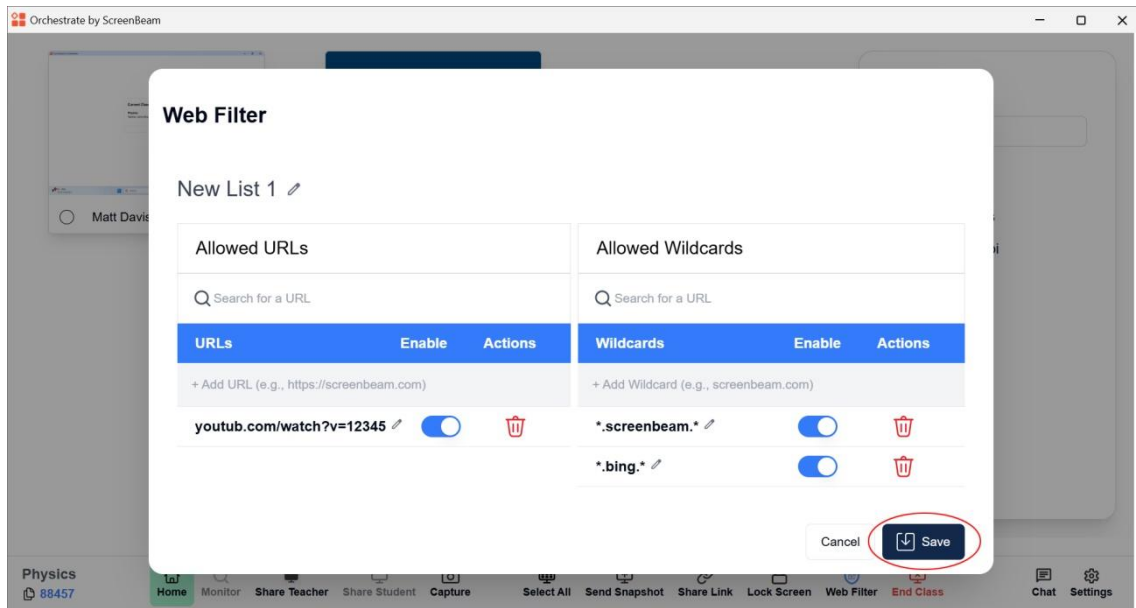
4. On the main menu, select **Allow List** or **Block List**, and then click the Delete button (the trash bin icon) on a list to delete it.



5. If you want to delete a specific rule, select **Allow List** or **Block List** on the main menu, double-click on an existing list to open it, and then click the Delete button (the trash bin icon) at the end of a URL or wildcard to delete it.



6. Click the **Save** button to save your settings.



Part IV Using an Interactive Touch Display

ScreenBeam 1000 EDU/1000 EDU Gen2 receiver supports wireless inking and touch with Windows 10/11 Miracast for collaboration using a touchscreen display. Users can beam their preferred Windows 10/11 application and take notes on the touchscreen; the notes appear directly on the client device.

4.1 System Requirements

- OS: Windows 10/11 21H2 (or later)
- CPU: 10th Gen Intel Core i5 or AMD equivalent (or better)
- RAM: 4 GB or more

4.2 Setup Requirements

- Interactive touch display
- USB Type-A to Type-B/A cable (depending on the touchscreen type)

4.3 Supported Features

- Support USB HID display or whiteboard
- Up to 20-point touch
- Up to four simultaneous passive pens
- Up to two simultaneous active pens

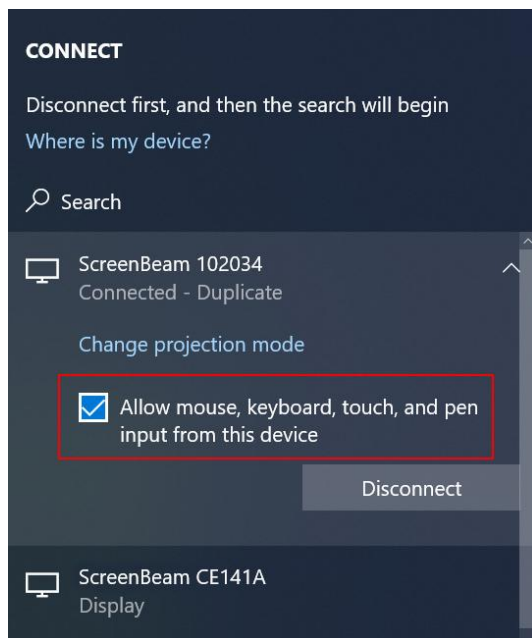
Supported features may require compatible touchscreen and/or application. Works best with InGlass™ Technology enabled display. Refer to the online compatibility list at:

<https://support.screenbeam.com/touch/compatibility>

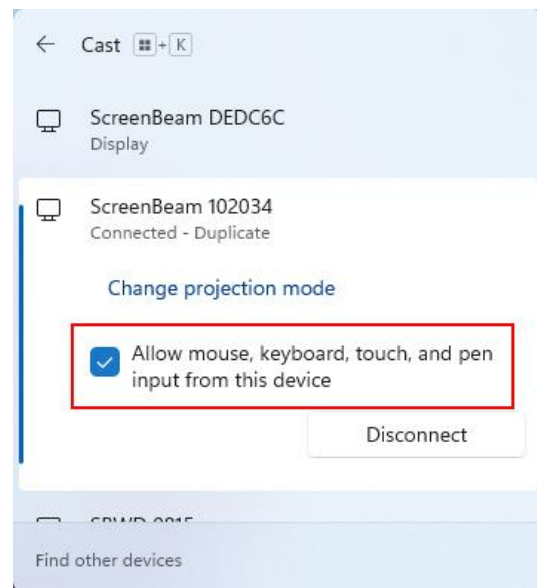
4.4 Setup and Instructions

Follow the steps below to set up and use the interactive touch feature:

1. Prepare the touch display and the USB touch cable supplied with the touch display.
2. Connect the USB Type-A end to the ScreenBeam receiver's USB port.
3. Connect the USB Type-B/A end to the USB Touch input on the display.
Note: If the display provides more than one touch output, make sure the USB Type-B/A end is connected to the same touch output as the HDMI® input.
4. Connect the teacher's Windows 10/11 device to ScreenBeam receiver via Miracast or Miracast over infrastructure network (see instructions in Section 3.1.1 **Beaming the Teacher's Screen via Miracast**).
5. Ensure the **"Allow mouse, keyboard, touch, and pen input from this device"** option is checked.



Windows 10



Windows 11

6. Start using the display by touching the screen. Launch an app and draw using your finger or pen.

Part V Use Cases

ScreenBeam Orchestrate use cases are described in the context of a real-world applications. The teacher and students' laptops have joined Microsoft Entra ID, and Orchestrate Extension is installed on their Edge browsers. The Teacher will serve as the moderator. These actors participate in the use cases described below.

- Jane is the teacher.
- Matt is a student.
- Sarah is Matt's classmate.
- SB is the ScreenBeam receiver in the classroom and is connected to the room displayed mounted on a wall.

5.1 Starting an Orchestrate Session

1. Jane, the teacher, launches Edge on her laptop, and then connects to SB. When Jane is connected, the Orchestrate Home window appears, and her name appears as the Teacher on the RTP screen. The Orchestrate Home window shows the class roster with students' names greyed out.
2. Sarah signs into her Windows 10/11 PC, and then her PC connects to SB automatically. When Sarah is connected, the count of Students on the RTP screen increments.
3. Jane's Orchestrate Home window shows the class roster and Sarah is online. A small thumbnail of Sarah's screen shows up in Jane's Orchestrate Home window.
4. Matt signs into his Windows 10/11 PC, and then his PC connects to SB automatically. When Matt is connected, the count of Students on the RTP screen increments.
5. Jane's Orchestrate Home window shows the class roster, and Matt and Sarah are online. A small thumbnail of Matt's screen is added to Jane's Orchestrate Home window.

5.2 Moderating an Orchestrate Session

This use case is a continuation of the use case "Starting an Orchestrate Session".

1. The TV screen is showing the RTP screen, which shows Jane as the Teacher and the count of students.
2. Jane clicks the **Share Teacher** button on her Orchestrate Home window. The TV now displays her screen.
3. Jane tells Sarah that she will show her work to the entire class. She clicks Sarah's thumbnail to start monitoring her screen.
4. The Orchestrate Home window shows Sarah's screen in a larger window in real time.

5. After previewing Sarah's screen for a few seconds, Jane clicks the **Share Student** button. The TV now displays Sarah's screen for the class to see.
6. Now it is Matt's turn to show his work to the class. Jane repeats the procedure above to beam Matt's screen on the TV.

5.3 Terminating an Orchestrate Session

1. Jane closes the Orchestrate Home window, which disconnects her PC from the ScreenBeam Receiver.
2. TV display returns to the idle screen.
3. Sarah's and Matt's PCs disconnect from the ScreenBeam receiver automatically.