Kolibri

Release 0.10

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Kolibri is an open-source educational platform specially designed to provide offline access to a wide range of quality, openly licensed educational contents in low-resource contexts like rural schools, refugee camps, orphanages, and also in non-formal school programs.

Kolibri can serve high quality education content from several publicly available **content channels**, collections of educational resources (exercises, videos, audio or document files) and associated metadata, prepared and organized for their use in Kolibri. It works in conjunction with Kolibri Studio, the curriculum tool used to organize content and build custom content channels, aligned to the local curricula, or according to specific learning needs.

Fig. 1: Some publicly available learning content that may be included in Kolibri.

CHAPTER 1

Learners - start here

Whether you are using Kolibri at your school, in a training center or at home, learn how to *open* it on your device, what kind of *content and activities* can you work with, and how to submit *exams* created by your coaches or tutors.

CHAPTER 2

For Coaches using Kolibri

Read how to *monitor activity* and *track the progress* of your learners on whole topics and exercises, all the way to single answers to particular questions. Create and *manage different learner groups*, *assign lessons*, administer *exams* and view reports.

CHAPTER 3

For Administrators and Superusers of Kolibri

Begin by reading how to *install* and *start* Kolibri server on the supported platforms, and *configure other devices* in the local network to access its content. Proceed on how to *import content channels*, create and manage *users* and *classes*. Configure the *settings for your facility*, and assign or edit *permissions* for other users. Learn how to work with Kolibri from *the command line*, *troubleshoot network issues*, and ask for support on our *Community Forums*.

Happy learning with Kolibri!

3.1 Install Kolibri

See the Kolibri changelog here to review specific changes in each version of Kolibri. Documentation for previous Kolibri versions are available here.

3.1.1 Hardware requirements

To install **Kolibri** on a device that will act as a server, check the hardware requirements first, and then follow the procedure for the operating system on your device.

Tip: Below you will find general recommendations regarding hardware requirements to run Kolibri. To read more detailed information and find out examples of hardware setups that have been implemented by our users, download the full Kolibri Hardware Guide and examples of Hardware Configurations for Kolibri (PDF documents).

Servers

Minimum hardware requirements to run Kolibri as a server:

- 500 MB RAM (1 GB recommended)
- 500 MHz CPU (1 GHz recommended)
- Hard drive space depends on the size of the content channels you intend to import from Kolibri Studio or a local storage device.

If you have a facility with less than 30 computers, a device as simple as a Raspberry Pi is known to work fine as a server.

Clients

Very old desktops and very low-power computers can be used as client devices to access Kolibri. For instance, some implementations are known to use first-gen Raspberry Pi as desktop computers.

It is always a good idea to do a practical test, but when you want to implement Kolibri, usually it's not necessary to scale your hardware. The main requirement is that your system needs a video card and driver that can play the videos.

3.1.2 Windows

Compatibility

- Supported: Windows 7, 8.1 and 10, with IE 11+, Chrome or Firefox
- **Not supported:** Windows XP cannot be used to install Kolibri server, but could potentially work as a client device if the browsers are as up-to-date as possible.

Install

1. Download the Kolibri Windows installer.
2. Double-click the downloaded `.exe` file.
3. Select the language for the installation.
4. Python 3 installer is included, confirm the installation or the upgrade to proceed.
5. Follow the rest of the instructions in the Kolibri installation setup wizard.
6. Once the installation finishes, Kolibri will auto-start and open in the default browser on your computer at http://127.0.0.1:8080. This may take a moment, so please be patient.

7. Proceed with the *Initial Setup* of your facility.

Warning: Windows firewall will prompt you to allow the Python process needed to run Kolibri. Click **Allow access** to accept and proceed.

Uninstall

1. Open the Windows Control Panel.
2. Select **Programs and Features** option.
3. Select Kolibri from the list of programs.
4. Click the button **Uninstall/Change** and follow the instructions.

Upgrade

To upgrade Kolibri, follow these steps.

1. Download the new version of Kolibri Windows installer.
2. Double-click the downloaded `.exe` file.
3. Follow the instructions in the installation wizard window.
4. Once the installation of the upgrade is finished, Kolibri will auto-start and open in the default browser on your computer.
5. Go explore the new and improved Kolibri features!

3.1.3 Debian/Ubuntu

Compatibility

Debian/Ubuntu 14.04, 16.04 and up - anything that's *not* end-of-life

Install from PPA repository

Use the following commands in Terminal to add the PPA and install Kolibri:

```
sudo apt-get install software-properties-common python-software-properties
sudo add-apt-repository ppa:learningequality/kolibri
sudo apt-get update
sudo apt-get install kolibri
```

Install from a .deb file

The advantages of downloading a `.deb` file is the portability: you can copy the file from device to device and install Kolibri without internet access.

1. Download the latest Kolibri .deb installer, or have it copied to your local drive.

2. Run this command from the location where you downloaded the `DEB` file:

```
sudo dpkg -i kolibri-installer-filename.deb
```

3. Wait for the installation to finish and run this command to start Kolibri:

```
kolibri start
```

Note: If you choose to install Kolibri as a system service, you will not need to start it manually.

4. When the command finishes, open the default browser at http://127.0.0.1:8080 and proceed with the *Initial Setup* of your facility.

Uninstall

- Open **Software** on Ubuntu and locate the Kolibri. Press **Remove**.
- Or from the command line: `sudo apt-get remove kolibri`.

Upgrade

When you use the PPA installation method, upgrades to newer versions will be automatic, provided there is internet access available.

To upgrade Kolibri on a Debian device without internet access, bring the updated `.deb` file and follow the same steps as in *Install from a .deb file*.

Changing the owner of Kolibri system service

The *system service* is the script that runs Kolibri in the background when your system boots on Debian-based distributions.

You may need to change the system service to run with the permissions of a different user account. Prior to v0.10, `kolibri` user account was the owner of the system service, while from v0.10 and later, desktop user's account is preferred, in order for Kolibri to access the local USB storage.

To change the system service owner, you need to change the configuration of the system service: move the `.kolibri` data folder (containing channels, databases etc.), and assign owner permissions to the new user. Follow these steps.

```
# Stop Kolibri
sudo systemctl stop kolibri
# Move data to your desktop user:
sudo mv /var/kolibri/.kolibri /home/$USER/.kolibri
# Change ownership
sudo chown -R $USER /home/$USER/.kolibri
# Change the username configuration
sudo sh -c 'sudo echo -n $USER > /etc/kolibri/username'
# Start Kolibri again
sudo systemctl start kolibri
```

Note: Replace the `$USER` in commands above with the name of the user you wish to be the new Kolibri system service owner.

3.1.4 Raspbian

Compatibility

Kolibri works well on Debian-based distributions for Raspberry Pi, such as Raspbian, and has been tested on RPi 3 models.

Install

1. Running `add-apt-repository` as shown in the PPA instructions does not work. Instead, run:

```
sudo apt install dirmngr
sudo su -c 'echo "deb http://ppa.launchpad.net/learningequality/kolibri/ubuntu␣
↪xenial main" > /etc/apt/sources.list.d/learningequality-ubuntu-kolibri-xenial.
↪list'
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys␣
↪DC5BAA93F9E4AE4F0411F97C74F88ADB3194DD81
sudo apt update
sudo apt install kolibri
```

2. Kolibri does not start after installation. This is because `python3-cffi` is outdated on Raspbian. Upgrade it like this:

```
sudo apt install libffi-dev
sudo pip3 install pip --upgrade
sudo pip3 install cffi --upgrade
sudo systemctl start kolibri
```

3. When the command finishes, open the default browser at http://127.0.0.1:8080 and proceed with the *Initial Setup* of your facility.

Note: The following issues are quite common on a Raspberry Pi:

- The time isn't set properly and you will have errors downloading software. For instance, SSL certificates for online sources will fail to validate. Ensure that you have the right timezone in `/etc/timezone` and that the clock is set properly by running `sudo ntpd -gq`.
- You run out of storage space. If you have a USB source for additional storage, do something like this:

```
# Stop kolibri
sudo systemctl kolibri stop
# Move its data
sudo mv /var/kolibri/.kolibri /your/external/media/kolibri_data
# Ensure that the kolibri system service user owns the folder
sudo chown -R `cat /etc/kolibri/username` /your/external/media/kolibri_data
# Restore the original location with a symbolic link
sudo ln -s /your/external/media/kolibri_data /var/kolibri/.kolibri
# Start kolibri
sudo systemctl kolibri start
```

- Loading channels can take a **long time** on a Raspberry Pi. When generating channel contents for Khan Academy, the step indicated as "Generating channel listing. This could take a few minutes..." could mean ~30 minutes. The device's computation power is the bottleneck. You might get logged out while waiting, but this is harmless and the process will continue. Sit tight!

Uninstall

From the command line: `sudo apt-get remove kolibri`.

Upgrade

When you use the PPA installation method, upgrades to newer versions will be automatic, provided there is internet access available.

3.1.5 Other Linux & MacOS

Compatibility

- MacOS: 10.6+, all browsers supported
- Linux: Any system with Python 2.7, all browsers supported

Install

To install Kolibri on Linux distributions other than Debian, as well as on MacOS, you can use *generic installation* with `pip install` command, or follow these steps to run Kolibri with the `PEX` package.

1. Download the Kolibri PEX installer.
2. Make sure to **open the Terminal where you downloaded** the `PEX` file. For example, if you saved it in the *Downloads* folder, type this when you open the Terminal, and press Enter:

   ```
   cd Downloads
   ```

3. Type the following commands next (press Enter after each one).

   ```
   chmod +x kolibri-installer-filename.pex
   ./kolibri-installer-filename.pex start
   ```

   Warning: Make sure to **substitute the** `kolibri-installer-filename.pex` **with the exact name of the file you downloaded** in both commands. For example, if the name of the downloaded file is `kolibri-v0.10.0.pex`, type that instead of `kolibri-installer-filename.pex`.

4. When the command finishes, open the default browser at http://127.0.0.1:8080 and proceed with the *Initial Setup* of your facility.

Uninstall

1. Delete the `PEX` file.
2. Delete the `./kolibri` folder in your user's Home directory if you want to completely remove all the Kolibri files and content channels you imported.

Upgrade

To upgrade Kolibri, follow these steps.

1. Download the new version of Kolibri PEX installer.
2. Start Kolibri as during the first install.
3. Go explore the new and improved Kolibri features!

3.1.6 Python pip package

You can install Kolibri as a standard package from PyPi (works on Mac, Windows, and Linux) using this command:

```
pip install kolibri
```

3.1.7 Initial Setup

To do the initial setup of your Kolibri facility after the installation, follow these steps.

Note: You need to do the initial setup only once, the first time you start Kolibri after the installation.

1. **Select the default language for Kolibri.**

Fig. 2: Select the default Kolibri language.

Warning: The default language configured for content in your browser preferences might override the language you choose in this step. To ensure that Kolibri displays in the desired language, make sure to configure it as default in the browsers of all the devices that will be used to view Kolibri content.

2. **Name your Facility.** A "Facility" is the location where you are installing Kolibri, such as a school or a training center.

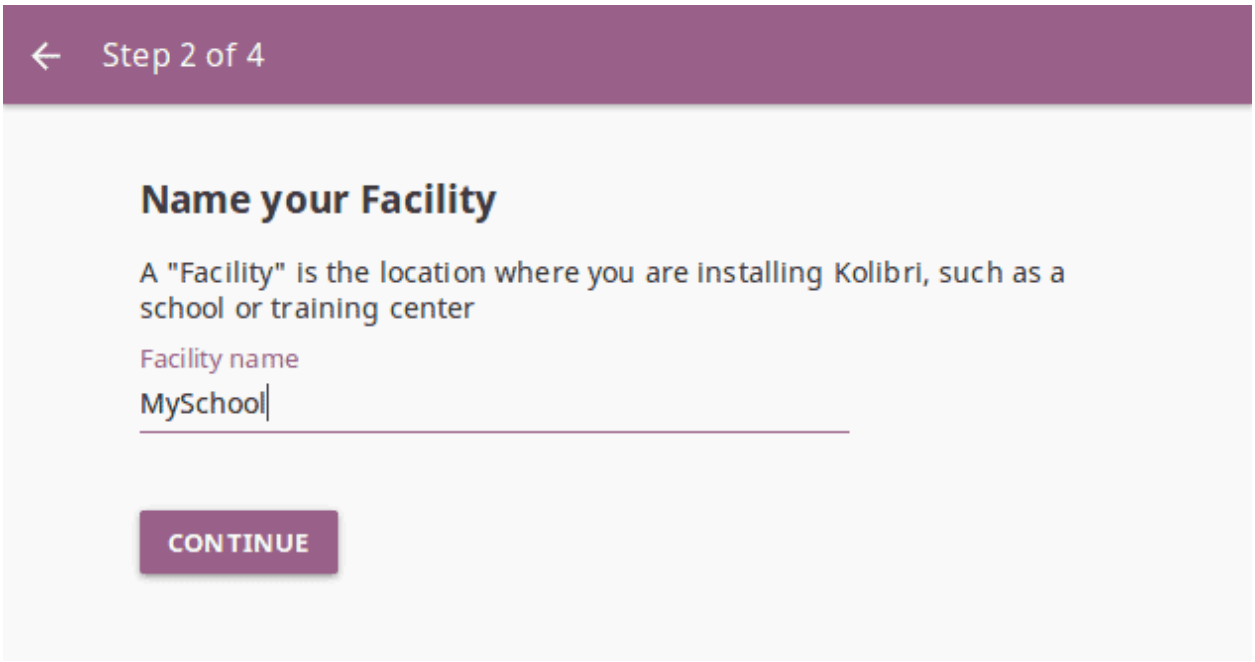


Fig. 3: Select the name for the facility where Kolibri is running.

3. **Choose a Facility setup.** Click the link *More information about these settings* for more details about user permissions for each setup type.

Facility type	Users
Self-managed For parent-child learning, homeschooling or supplementary individual learning.	• Guests can create their own accounts. • Users can edit their account information.
Admin managed For schools and other formal learning contexts.	• Admins must create all user accounts. • Users can sign in without password. • Users cannot edit their account information.
Informal and personal use For libraries, orphanages, correctional facilities, youth centers, computer labs, and other non-formal learning contexts.	• Guests can create their own accounts. • Users can edit their account information.

4. **Create your Admin account.** This Admin user will be a **Superuser** able to manage all the device content, and all the rest of the facility users and their permissions.

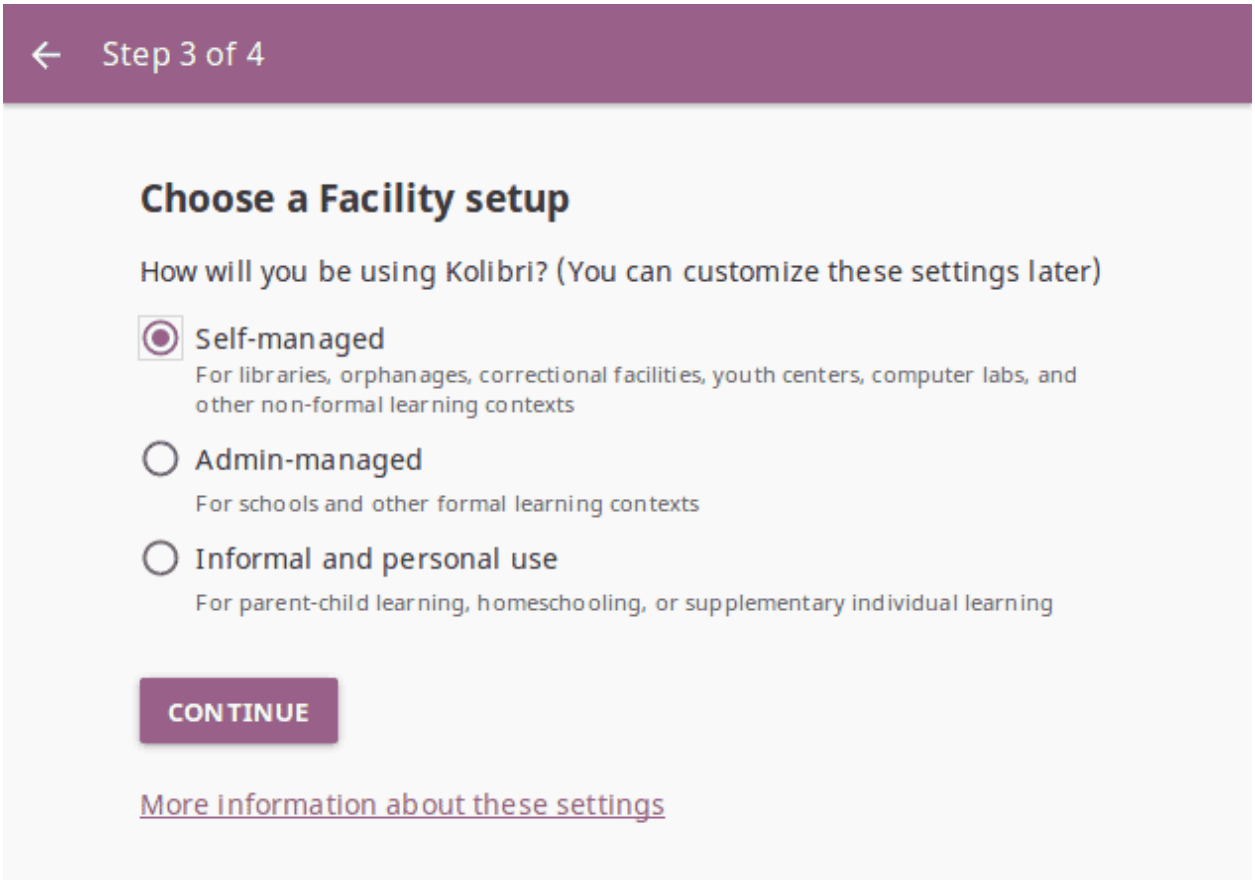


Fig. 4: Choose a Facility setup.

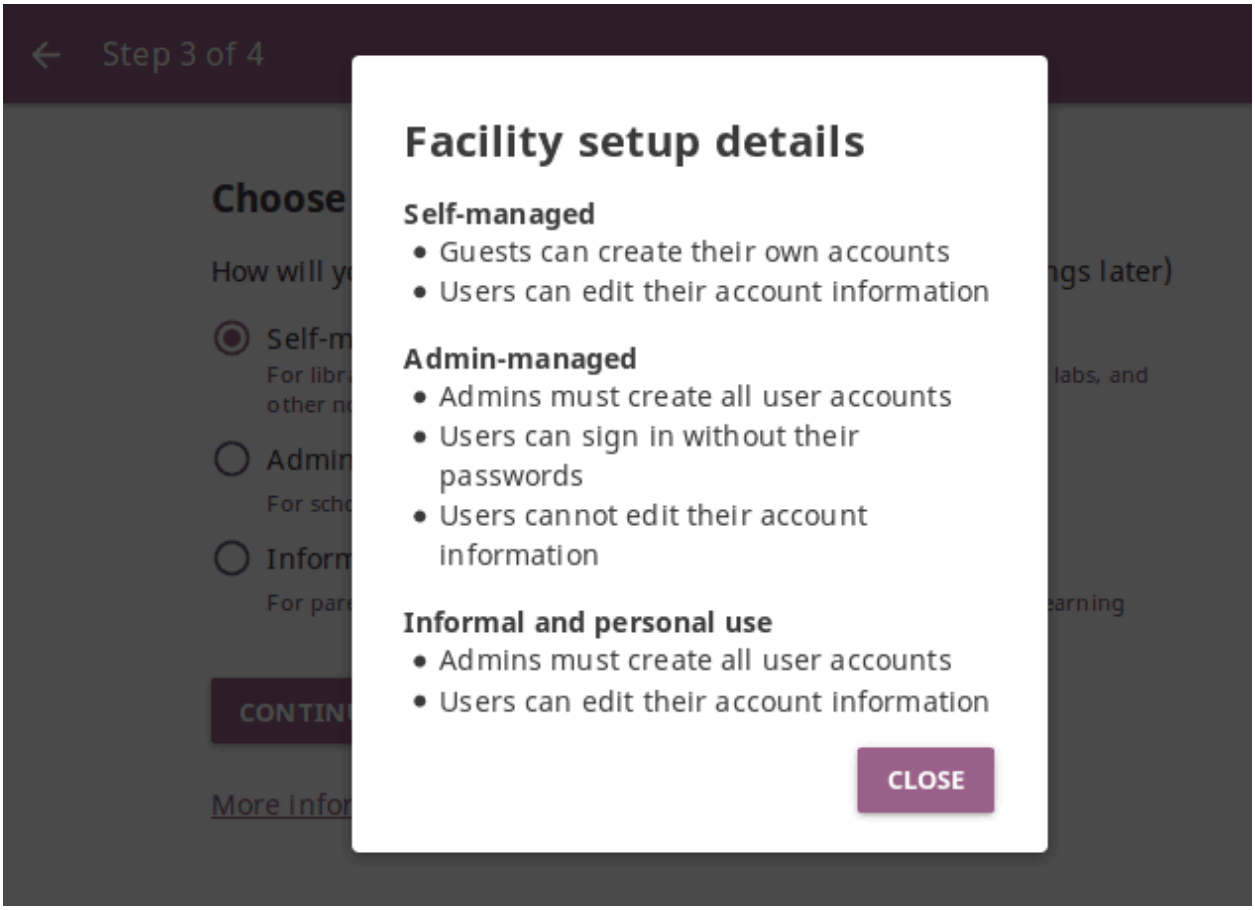


Fig. 5: View the Facility setup details.

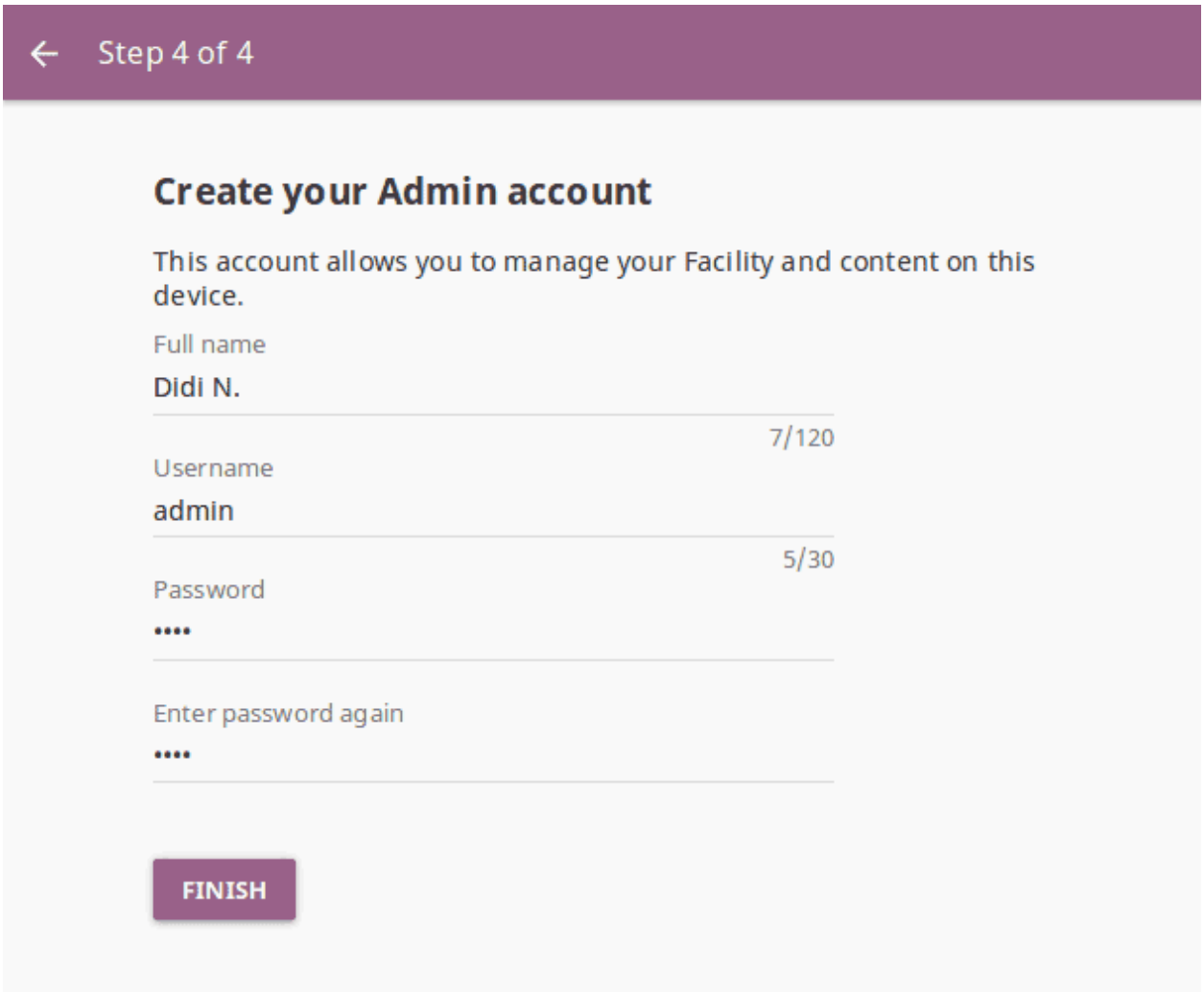


Fig. 6: Select the username and password for the facility Superuser.

> **Tip:** Make sure to save these superuser credentials in a safe place!

Once you finish the initial setup, proceed to *import some content*, and *create users* (if you chose the Admin-managed facility setup). Make sure to check how to *configure other computers* in the network to access Kolibri.

3.2 Access Kolibri

3.2.1 Starting Kolibri on Windows

To start the **Kolibri** server on Windows, just double-click the desktop shortcut. You will see the notification message *Kolibri is starting, please wait. . . .*

When you see the notification *Kolibri is running. . .* , **Kolibri** will open in the browser with the URL http://127.0.0.1:8080.

Kolibri Taskbar Options

While it is running, **Kolibri** will display an icon in the Windows taskbar (usually at bottom right, near the clock), that allows you to stop it and configure other settings.

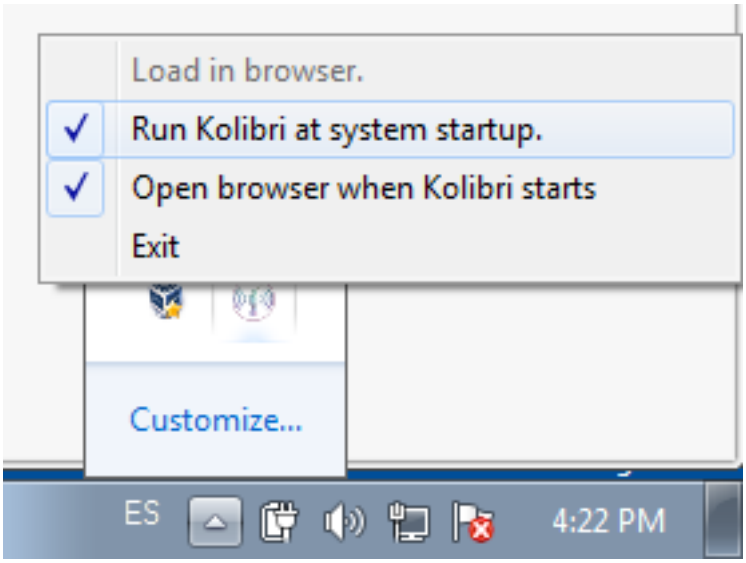


Fig. 7: Kolibri taskbar options.

- Use the **Load in browser** option to open Kolibri in the browser.
- By default **Kolibri** will start running every time you start the computer where it is installed. Uncheck the **Run Kolibri at system startup** option if you prefer to start it manually from the desktop shortcut.
- When installed, **Kolibri** will open in the browser every time it is started. Uncheck the option **Open browser when Kolibri starts** if you prefer to have it running in the background, and to open it manually in the browser by typing the URL http://127.0.0.1:8080 in the address bar.

- Select **Exit** to stop **Kolibri**. You will be prompted to confirm the selection, after which **Kolibri** will stop. You will have to close the browser (or the tab) manually.

Note: Remember to *configure other computers* in the network to access **Kolibri** content.

3.2.2 Starting Kolibri on Linux or MacOS

Starting Kolibri on Linux and MacOS will differ depending on the method you used to install it.

- If you used the *PEX package*, Kolibri will be accessible as long as the process is running in the Terminal.
- If you installed Kolibri as a system service with the *DEB installer*, it will run automatically on each system restart, and you do not need to start it manually. Proceed to step 2 below.
- If you installed Kolibri through the *PPA*, or *generic installation* with `pip install` command, follow these steps.
  1. Run this command in Terminal to start Kolibri:

     ```
     kolibri start
     ```

     Warning: On macOS you may need to prefix the command with `python`, and type `python -m kolibri start` instead.

  2. Open the default browser at `http://127.0.0.1:8080` displaying the **Kolibri** start page.

     Note: Remember to *configure other computers* in the network to access **Kolibri** content.

  3. Run this command in Terminal to stop Kolibri:

     ```
     kolibri stop
     ```

3.2.3 Accessing Kolibri from Other Devices in the Network

After you have installed and started Kolibri on the computer that will act as a server, you need to configure other devices in the the same Local Area Network (LAN), such as other computers, tablets or phones, so they can access the the learning content on the server.

Compatibility

Kolibri currently supports the following combinations of operating systems and browsers for client devices:

- Windows 7, 8.1 and 10, with IE 11+, Chrome and Firefox
- MacOS 10.6+ with Safari, Chrome and Firefox
- Linux, any browser
- Android 4.2+, Chrome and Firefox
- iOS, Chrome and Firefox supported, **Safari not supported**

Warning: Videos are MP4 encoded. While most browsers do not require additional plugins or codecs, open source platforms will often require you to install MP4 codecs separately: For instance on Ubuntu, install the restricted extras package.

Setup Access on Other Devices

To access content from other devices in the same network, you need to know the *IP address* of the computer where Kolibri is running.

For example, if Kolibri is installed and started on a computer with the IP address **192.168.0.104**, you can access it from an Android tablet connected to the same network by opening the browser on the tablet and typing the address `http://192.168.0.104:8080`.

Tip:

- You can check the IP (**Server URL**) of the device where Kolibri is running by going to **Info** tab in the **Device** dashboard.

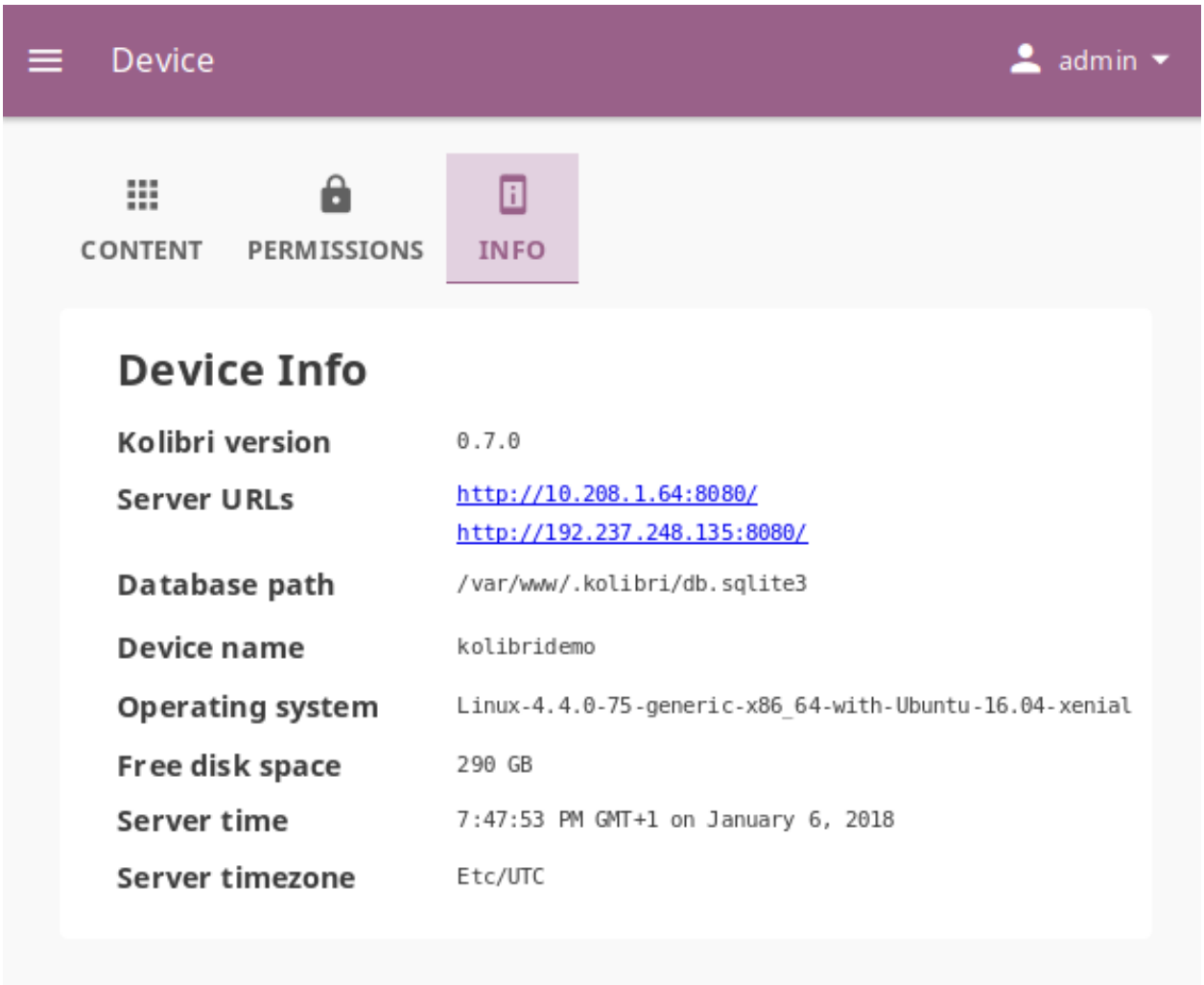


Fig. 8: Find the IP/Server URL in the Device > Info tab.

- You can also use the `ipconfig` command on Windows or `ifconfig` command on Linux/OSX to find the externally visible IP address of the device running the Kolibri.

Note:

- In case of network problems, see *troubleshooting tips*.
- Examples and comparison of Hardware Configurations for Kolibri (PDF document).

3.2.4 Change Language

To change language in which the **Kolibri** user interface is displayed, follow these steps:

1. Open your user menu in the upper right corner.
2. Select the **Change language** option.
3. Choose the desired language.
4. Click **Confirm** and Kolibri will be displayed in the selected language!

Warning: The default language configured in your browser preferences might override the language configured in Kolibri. To ensure that Kolibri displays in the desired language, make sure to configure it as default in the browsers of all the devices that will be used to view Kolibri content.

3.3 Manage Kolibri

3.3.1 Default User Roles

Kolibri users by default can be divided in 3 different roles with respective access to features.

Default user roles
Learners can: • View content and have their progress tracked
Coaches can: • View content and have their progress tracked • View *Coach* dashboard and track progress of other users and usage stats for individual exercises • Create/Edit/Delete *Groups* in *Classes* and add users to them • Create/Edit/Delete *Exams* and assign them to users • Create/Edit/Delete *Lessons* and assign them to users *Facility Coaches* have access to all classes, *Class Coaches* only to ones they are assigned to
Admins can: • View content and have their progress tracked • View *Coach* dashboard and track progress of other users and usage stats for individual exercises • Create/Edit/Delete other **Admins**, **Coaches**, and **Learners** • Create/Edit/Delete *Classes* and enroll users in them • Create/Edit/Delete *Groups* in *Classes* and add users to them • Create/Edit/Delete *Exams* and assign them to users • Create/Edit/Delete *Lessons* and assign them to users • View/Edit *Facility configuration* settings • Export *Detail* and *Summary* logs usage data

Kolibri Superusers

Kolibri **Superusers** have all device permissions and are able to *assign them to other users*. Therefore **Superusers** can:

- View content and have their progress tracked
- View *Coach* dashboard and track progress of other users and usage stats for individual exercises
- Create/Edit/Delete other **Admins**, **Coaches**, and **Learners**
- Create/Edit/Delete *Classes* and enroll users in them
- Create/Edit/Delete *Groups* in *Classes* and add users to them
- Create/Edit/Delete *Exams* and assign them to users
- Create/Edit/Delete *Lessons* and assign them to users
- View/Edit *Facility configuration* settings
- Export *Detail* and *Summary* logs usage data
- Import/Export *Content* channels
- View/Edit *Permissions* of other users

Tip: If you are unable to retrieve the username and password for a superuser account in your facility, you can *create a new superuser account using the command line*.

Assign Additional Permissions

By default, only **Superusers** can view the **Device** dashboard, import/export **Content** channels in Kolibri, and modify **Permissions** for other users. However, depending on the needs of the institution, **Superusers** can also *grant these permissions* to other users.

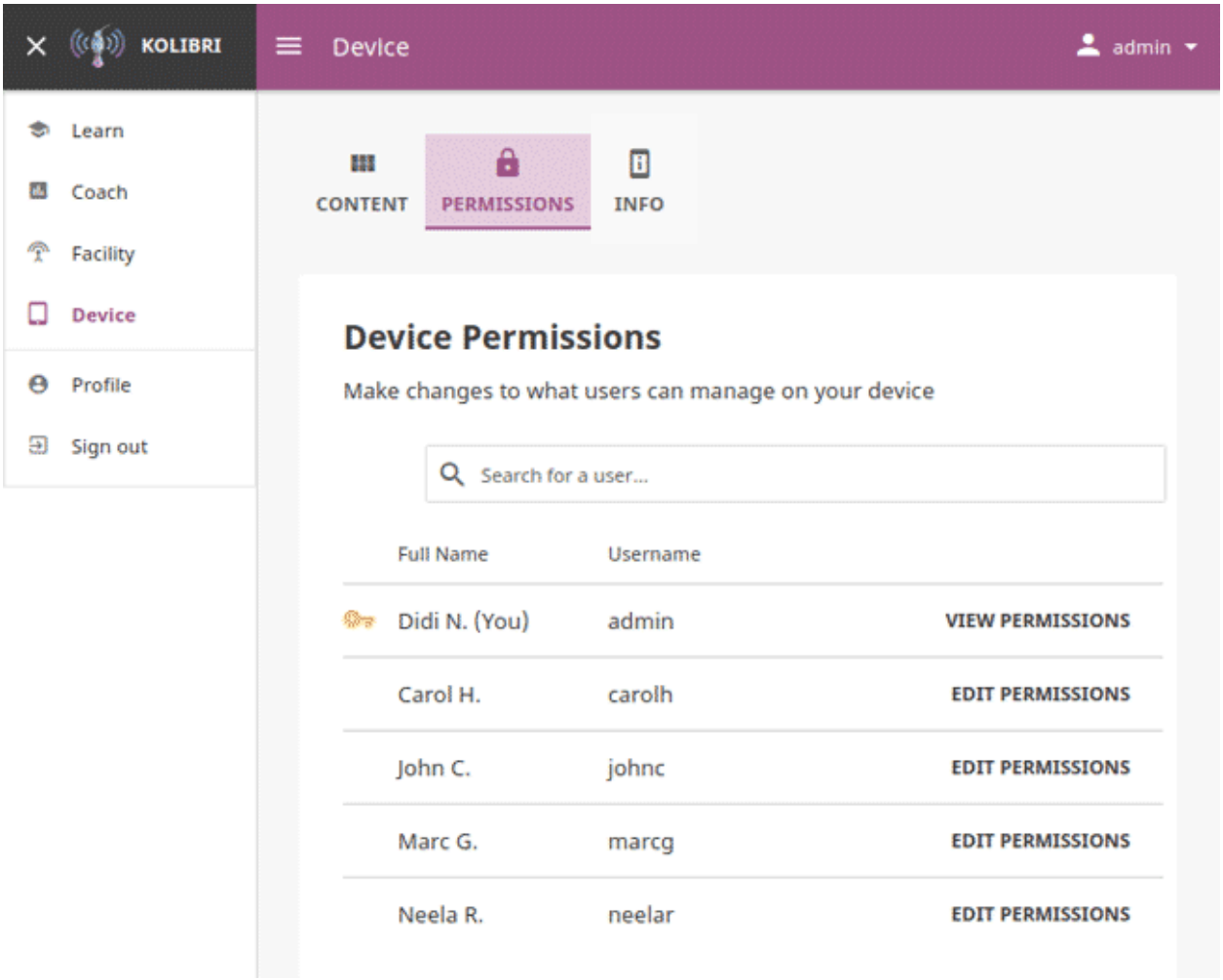
3.3.2 Manage Device

You can manage content and permissions, and view the detailed info of the device where Kolibri is running from the **Device** dashboard.

Note: To manage device settings you must have the appropriate permissions.

Assign Permissions

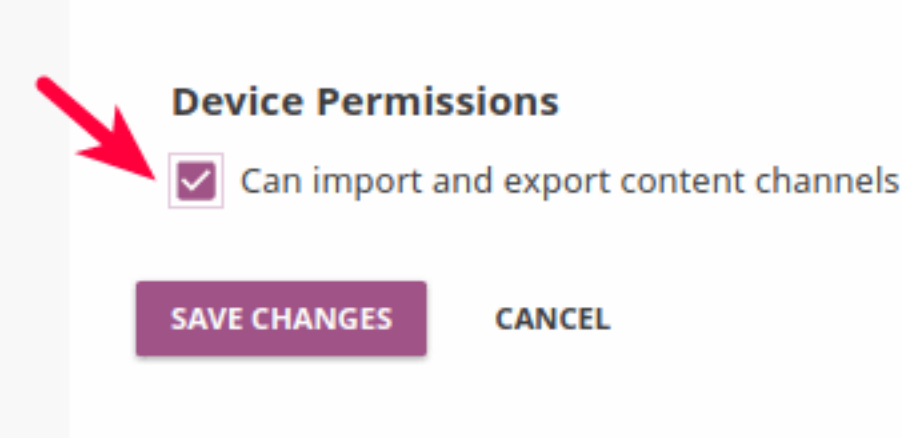
You can assign additional permissions to Kolibri users which will provide them access to more features compared to their *user roles*. To manage permissions for Kolibri users, use the **Permission** tab in the **Device** dashboard (icon).



Permission to Manage Content

To grant permission to manage content channels in Kolibri to another user, follow these steps.

1. Click **Edit permissions** for the chosen user.
2. Under **Device Permissions** activate the option *Can import and export content channels*.
3. Click **Save changes** to apply and finish.

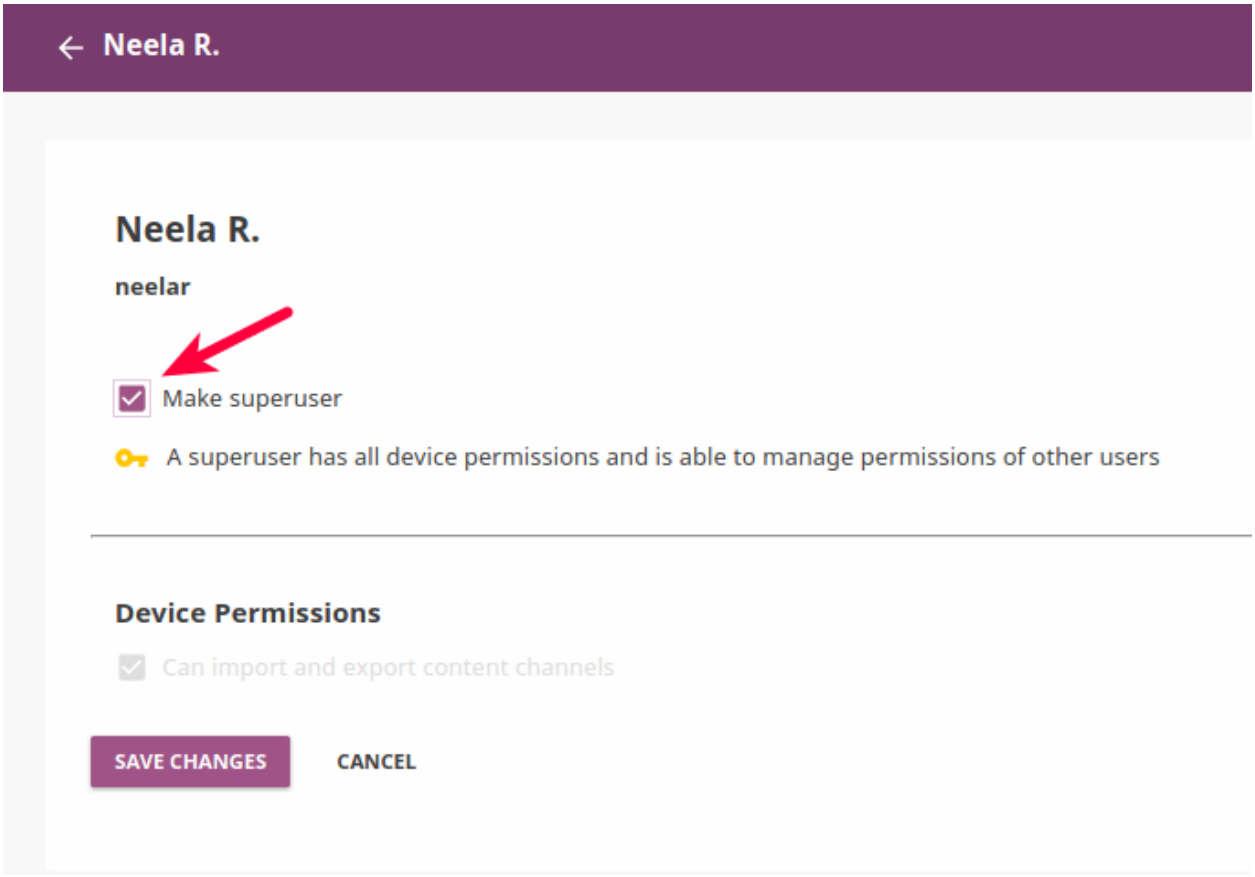


The users who have been granted the permissions to manage content channels will have a black key indicator in front of their name, and will be able to see the **Device** dashboard with the **Content** tab.

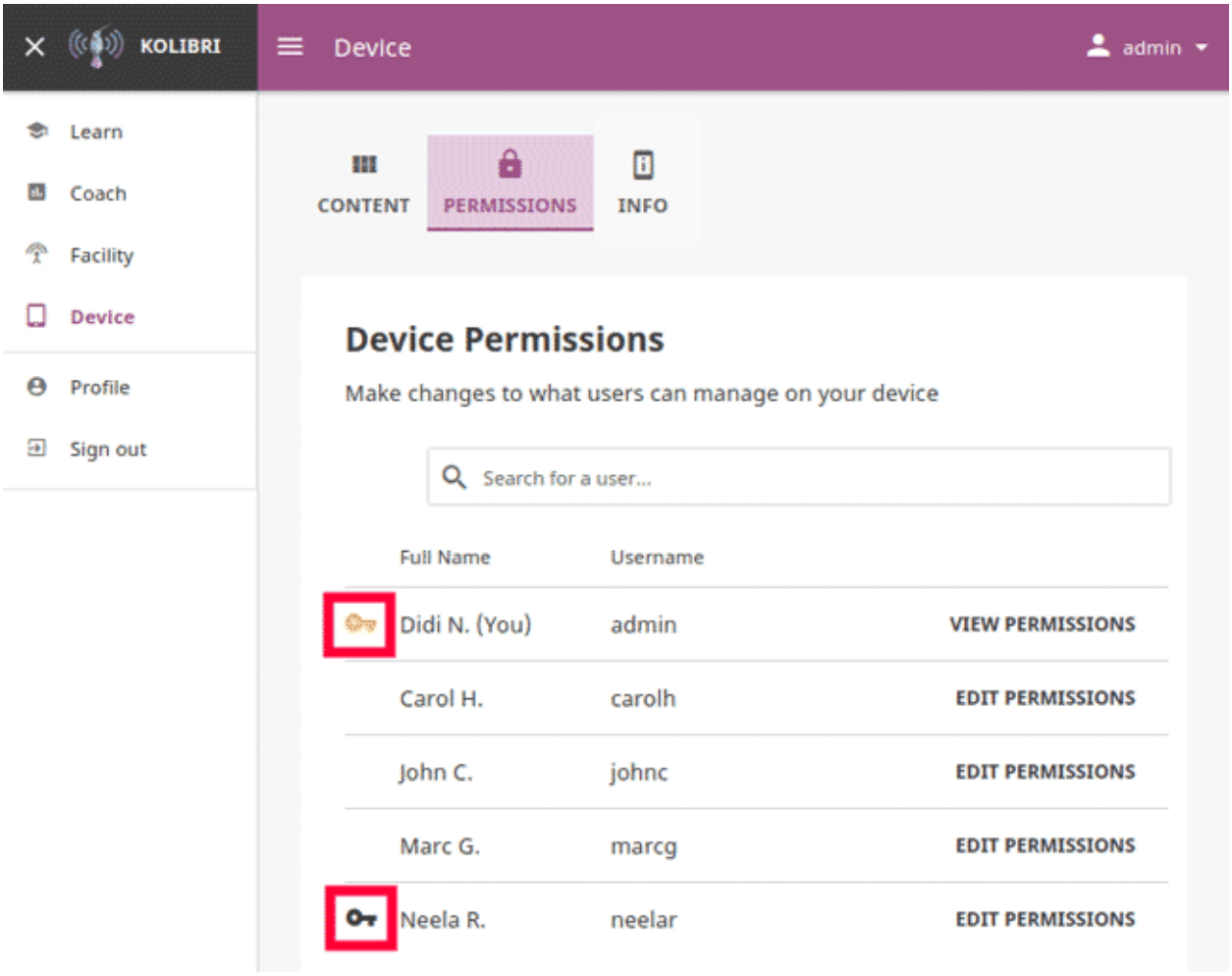
Superuser Permissions

To grant **Superuser** permissions to another user, follow these steps.

1. Click **Edit permissions** for the chosen user.
2. Activate the option *Make superuser*.
3. Click **Save changes** to apply and finish.



The users who have been granted the **Superuser** permissions will have a yellow key indicator in front of their name, and will be able to see the **Device** dashboard with both the **Content** and **Permissions** tabs.



View Device Info

To view the detailed info of the device where Kolibri is running on, use the **Info** tab in the **Device** dashboard (icon). This information will be useful in case you need to report an issue with Kolibri on the *Learning Equality Community Forums*. Make note or copy the following device details:

- Kolibri version
- Server IP/URL(s)
- Database path
- Device name
- Operating system
- Free disk space
- Server time
- Server timezone

3.3.3 Manage Content

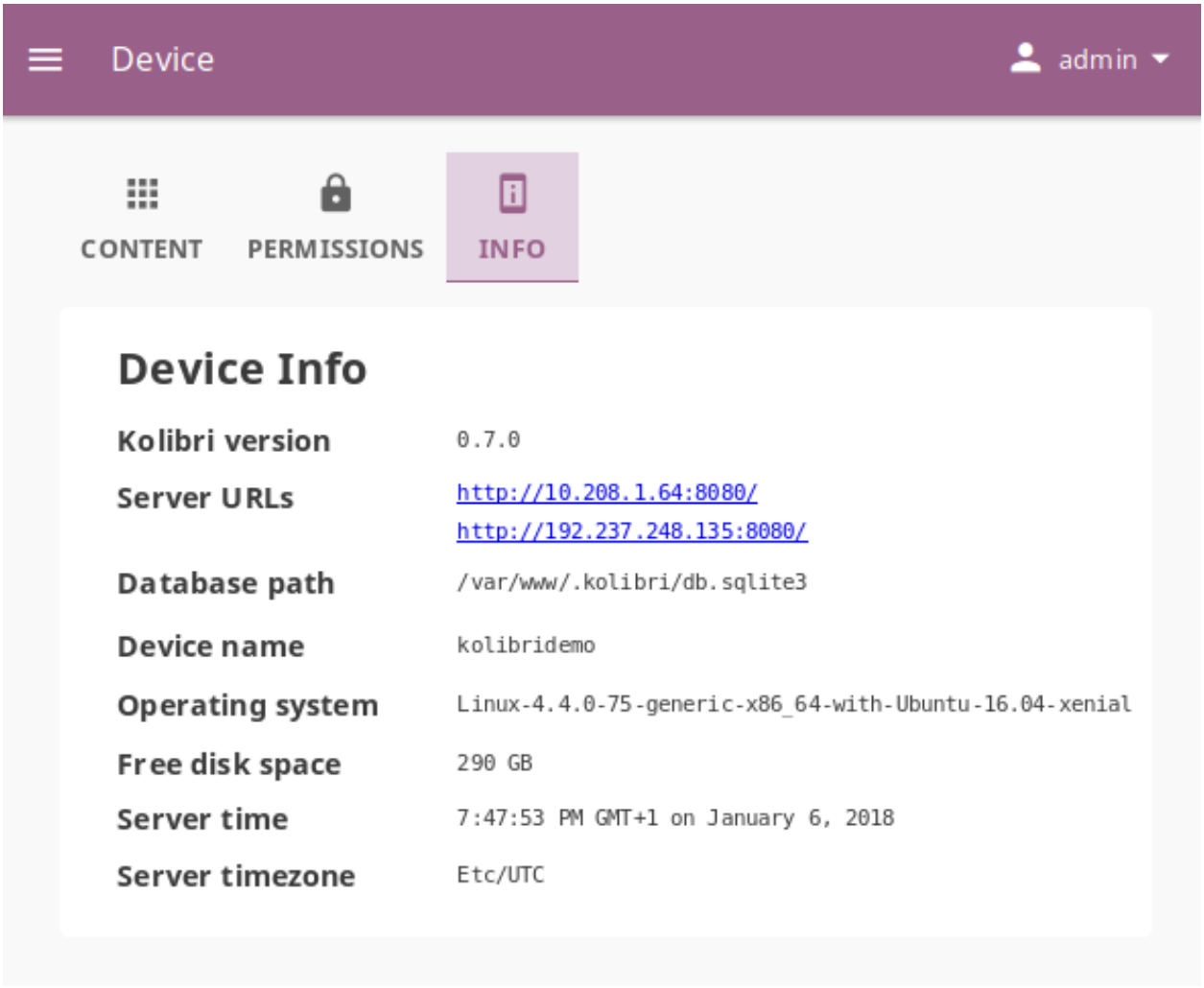
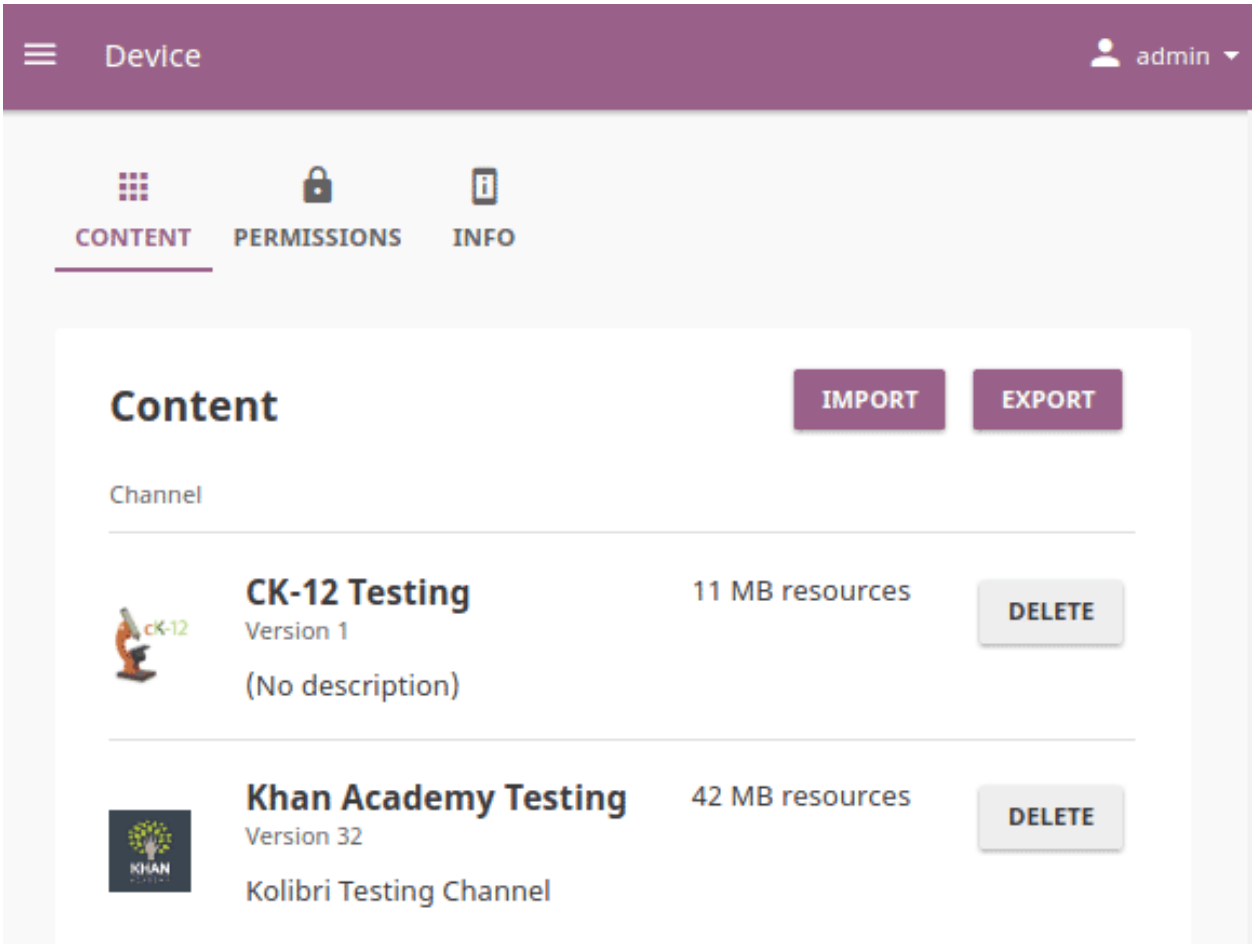


Fig. 9: Find out the detailed device info in the Device > Info tab.

Note: To manage Kolibri content channels you must have the appropriate permissions.

Kolibri **Content Channel** is a collection of educational resources (video, audio, document files or interactive apps) prepared and organized by the content curator for their use in Kolibri. You can import and export content channels in Kolibri from the **Content** tab of the **Device** dashboard (icon).



Each Kolibri content channel has its own **token/ID** in Kolibri Studio. You can freely view and browse content to import from the **public** channels in Kolibri, but in order to import content from **private or unlisted** channels, you will need the **channel token or ID from the content curator who assembled it**.

Note: The term **Channel ID** was valid for Kolibri versions up to 0.6, while from the Kolibri version 0.7 onward, we started using exclusively the term **token** to uniquely designate each channel.

Warning: When you *use the Terminal or command prompt* to import content channels in Kolibri from the command line, you still must use the **32 digit channel ID**, as the command will not work with the token. Make sure to receive the correct channel ID from the person who curated the channel you need to import, or refer to Kolibri Studio user guide how to find it in Studio user interface, if you have channel editor access.

Import Content into Kolibri

Warning: **Important**: You **cannot** import your own files (videos, documents, etc.) as learning resources directly into Kolibri from your computer. Kolibri can **only** import content from:

- already curated **content channels** on Kolibri Studio, if the computer running Kolibri is connected to internet

OR

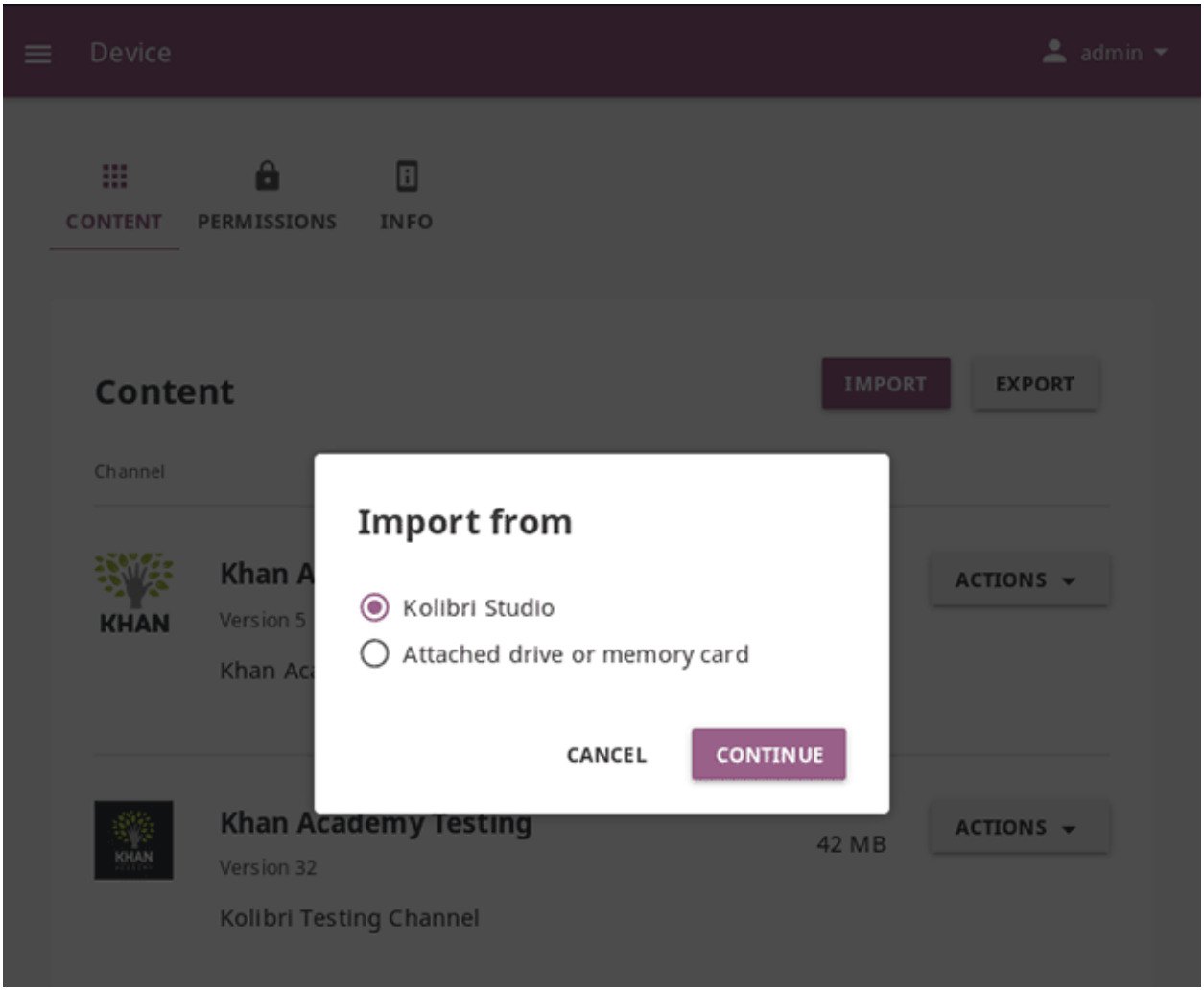
- an external storage drive (USB or hard drive) where content channels have been previously exported to from another Kolibri installation, if the computer running Kolibri is not connected to internet

To import your own files for use in Kolibri, you need to register at Kolibri Studio site (it's free), and build your own content channel that you can subsequently import into Kolibri. Read more about how to do this in our Kolibri Studio user guide.

Tip: As a precaution, we recommend you avoid other interactions with Kolibri (view learner pages or manage users, for example) while content import is in progress.

To import content into Kolibri, follow these steps.

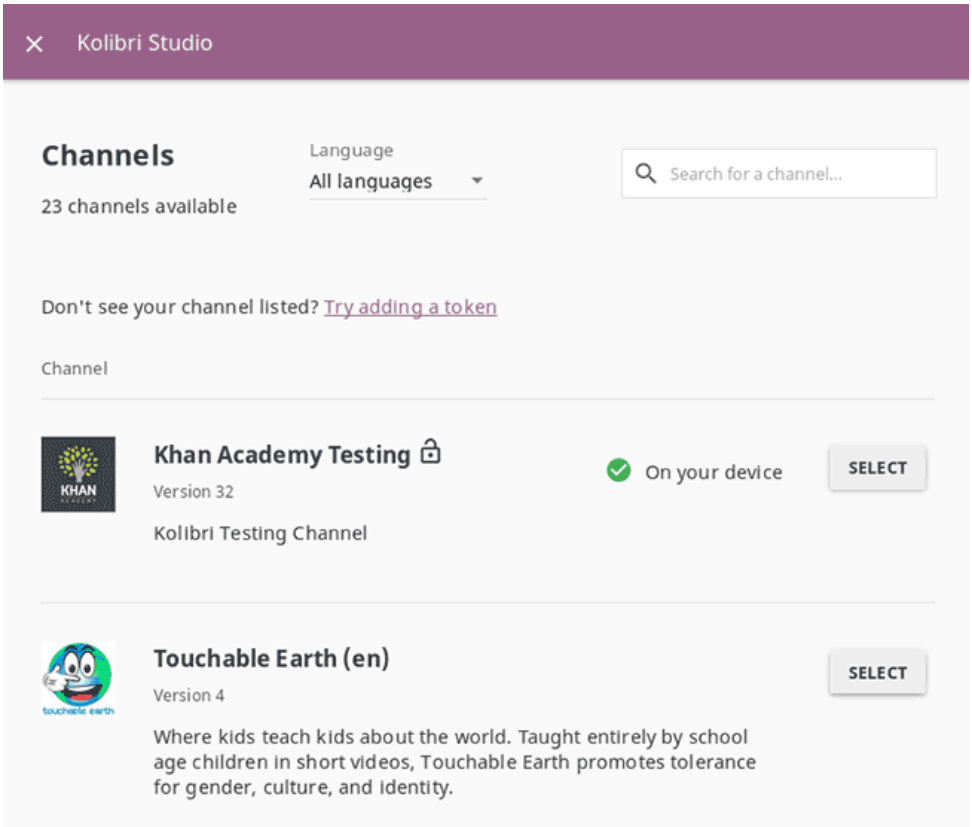
1. Click **Import** button in the **Content** page.
2. Choose the source option: **Kolibri Studio** or **Attached drive or memory card**.



Import Content from Kolibri Studio

If the computer where Kolibri is running has an Internet connection with the sufficient bandwidth, follow these steps to import content channels.

1. Choose option *Kolibri Studio*, and you will be able to see all the available **public** content channels.

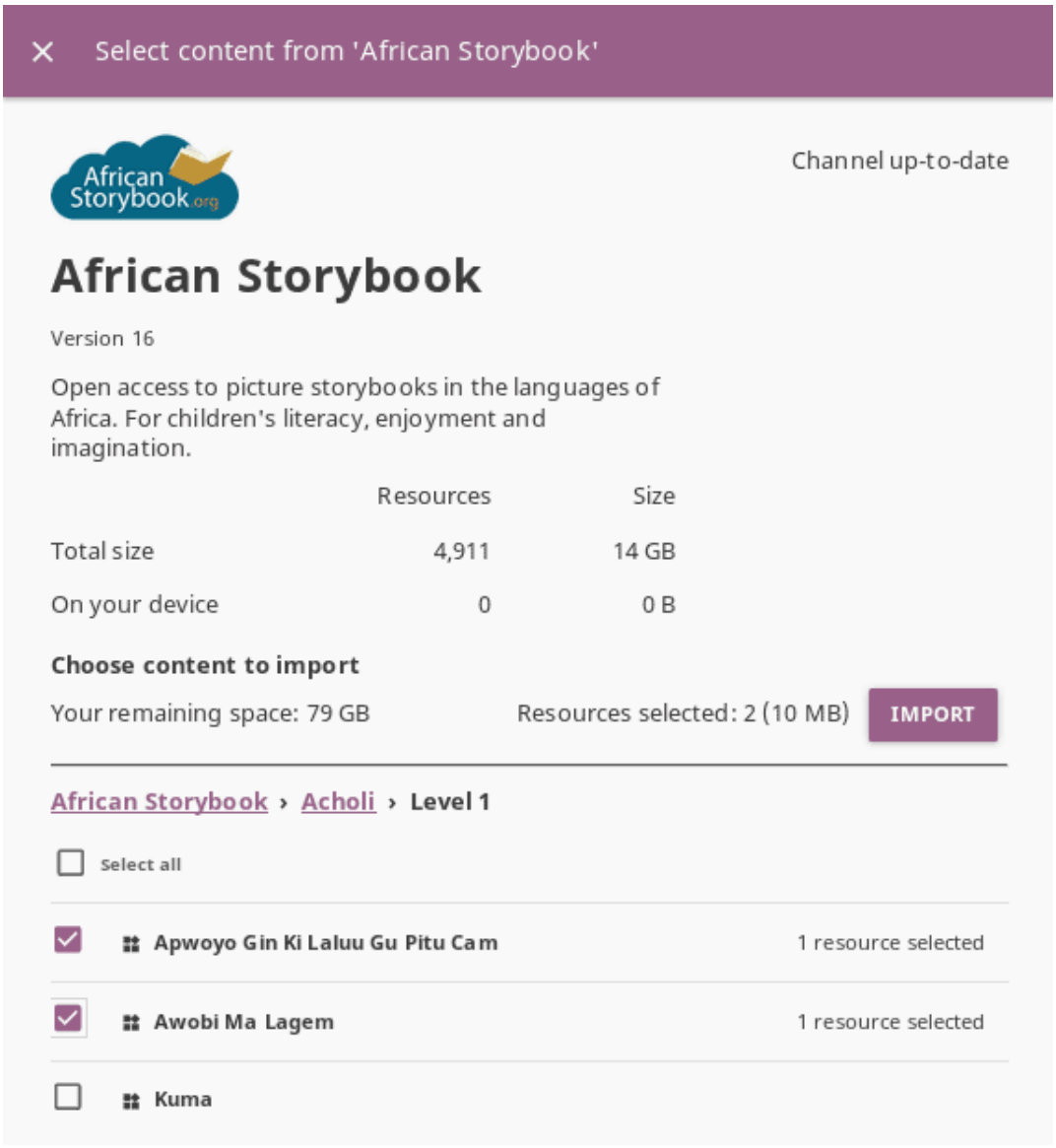


Channels from which you have already imported some or all content onto your device will have the icon.

2. Click **Select** button for the desired channel, and wait for Kolibri to display the channel information and the topic tree.

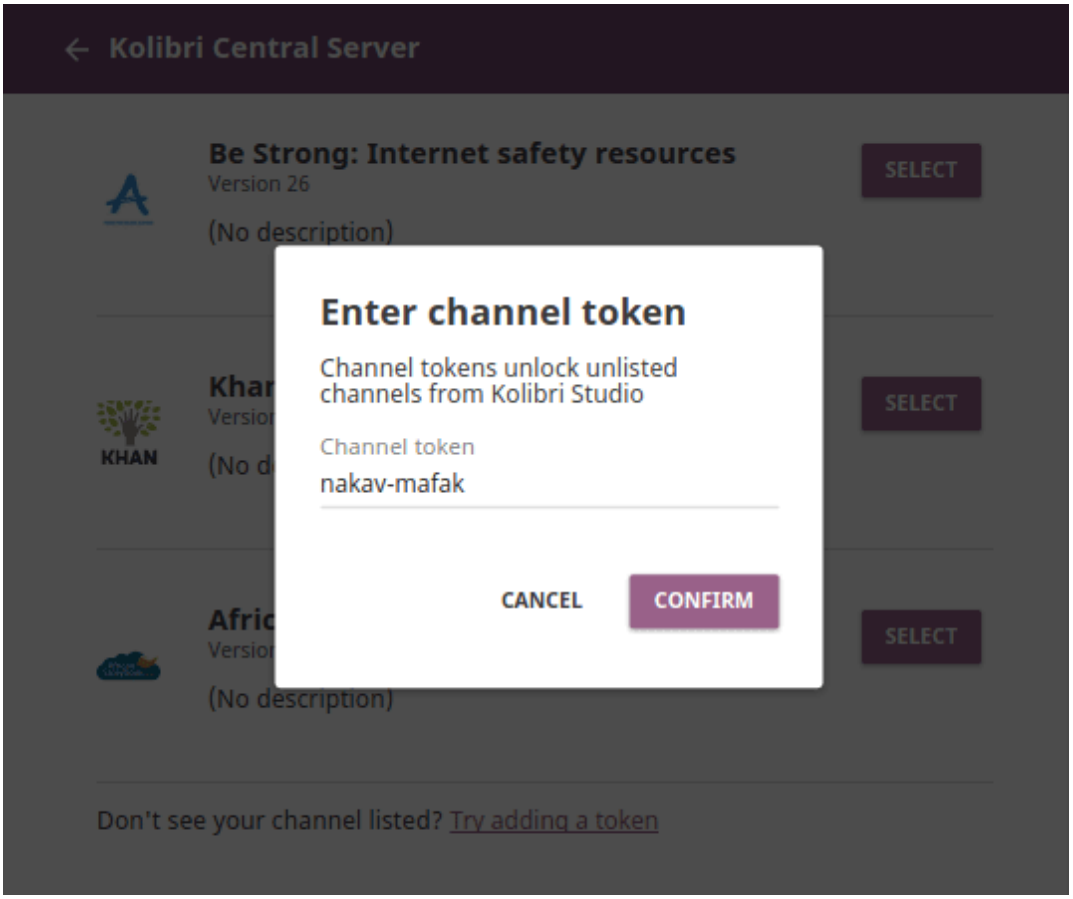
> **Warning:** This could take some time for big channels. Please be patient, as Kolibri needs to retrieve a lot of information to display.

3. In the **Select content from...** page you will see all the details for the selected channel: description, version, total size and number of learning resources, with the information weather you have some of the resources from that channel already imported on the local device.



4. Under **Choose content to import** click the topics links to browse through the channel contents. Use the *Select all* checkbox to import the content channel in full, or select only certain topics or resources. As you keep selecting, you will see the total number and size on disk under *Resources selected:*, and the remaining space on your device.
5. Click **Import** button once you finish selecting all the desired content.
6. Wait for the content to be downloaded and click **Close** for the new channel to appear under the **Content** heading.

7. If you need to import content from a **private/unlisted** channel, click on **Try adding the token** link above the channel list.
8. Enter the **channel token/ID** received from the channel curator on Kolibri Studio.



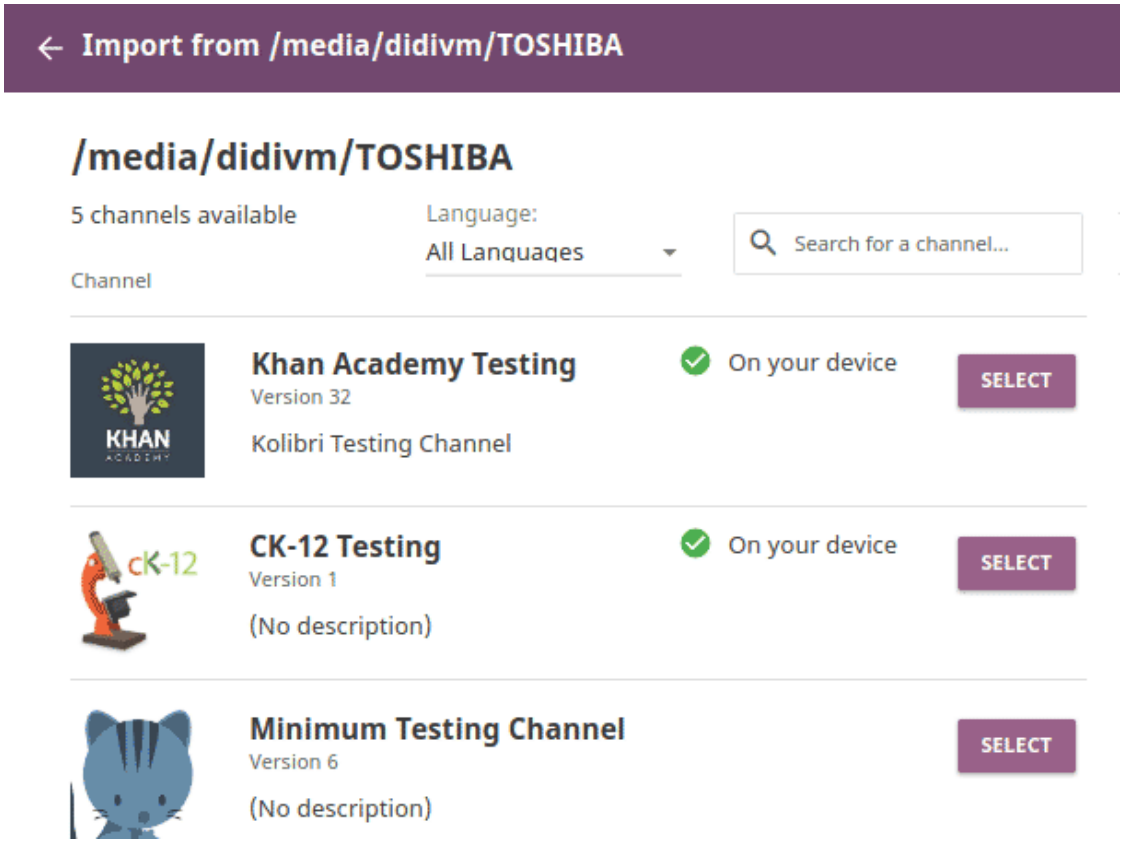
9. Click **Confirm** to unlock channel, or **Cancel** to exit.
10. Proceed to select and import channel topics and resources as for the public channels.

    Unlisted or private channels in the list are indicated with the icon.
11. To add more learning resources from a channel that you previously imported content from, click **Actions**, select **Import more**, and repeat the selection procedure from step 3.

Import Content from a Local Drive

If the computer where Kolibri server is running does not have access to Internet or has insufficient bandwidth, you have the option to receive content channels stored on an external drive (USB stick or hard disk). Follow these steps to import content channels.

1. Connect the external USB drive to your computer.
2. Choose option for *Attached drive or memory card*, and click **Continue**.
3. Kolibri will automatically detect and display the drive(s) with available Kolibri content files.
4. Select the drive where the desired channel is stored, and click **Continue**.
5. Click **Select** button for the desired channel, and follow the same steps for selecting topics and resources as for the *import from Kolibri Studio*.



Tip: Workaround for import from external drive on older devices.

If Kolibri is installed on an older or a low-resource device, you can try the following procedure for importing content channels for faster results.

1. Stop Kolibri.
2. Browse the local drive with the file explorer of your operating system.
3. Copy the `content` folder located inside the `KOLIBRI_DATA` folder on the local drive.
4. Paste the copied `content` folder inside the `.kolibri` folder on your hard disk. The location of the `.kolibri` folder will depend on your operating system (see the table below).
5. Confirm the merge of the two folders.
6. Restart Kolibri, and the new channels should now be available.

Operating system	Location
Windows	`C:/Users/<your_username>/.kolibri/`
OSX	`HD/Users/<your_username>/.kolibri/`
Linux	`/home/<your_username>/.kolibri/`

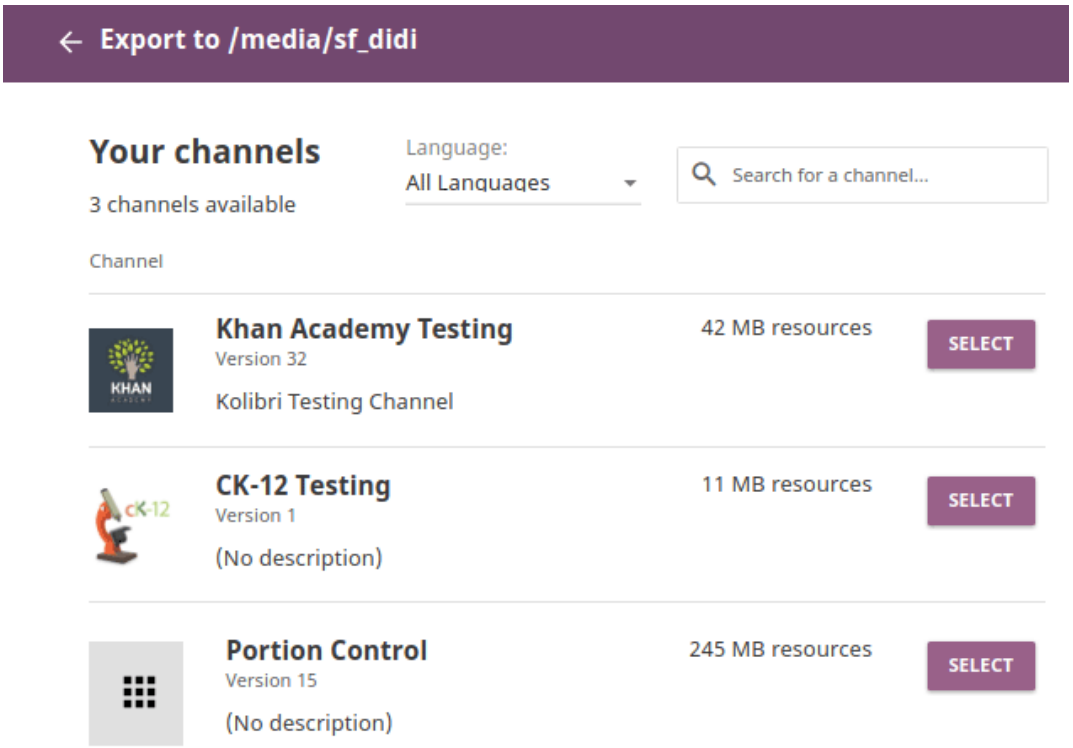
On Linux and OSX you will need to enable the **Show hidden folders** option in order to view the `.kolibri` folder.

Export from Kolibri to Local Drive

If you want to make available the content you have imported on your Kolibri device, to another computer where Kolibri is installed, follow these steps to export your content channels.

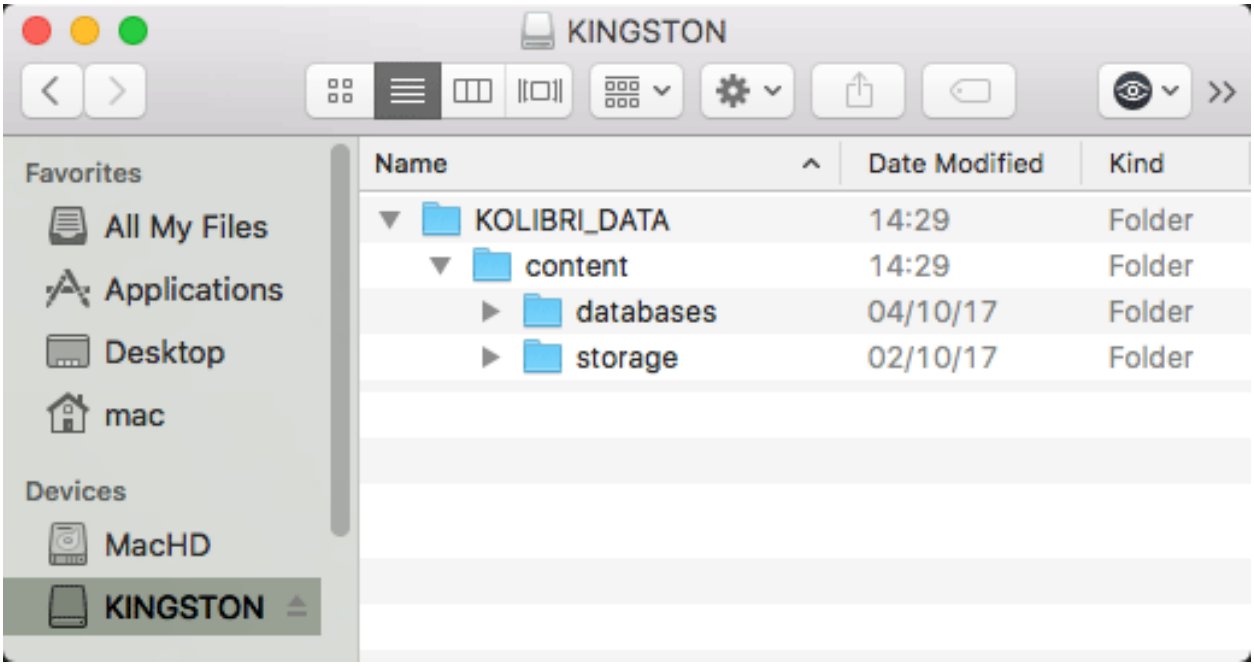
Note: You must have an external drive (SD card, USB stick or hard disk) attached to your device.

1. Click **Export** button in **Content** page.
2. Select the local drive (export destination) where you wish to export **Kolibri** content, and click **Continue**.
3. In the *Export to <name-of-your-drive>* page you will be able to see all the available content channels on your device.



4. Click **Select** button for the desired channel, and wait for Kolibri to display the channel information and the topic tree.
5. In the **Select content from...** page you will see all the details of the selected channel: description, version, total size and number of learning resources.
6. Under **Choose content to export** you can browse the channel topics and individual resources. Use the *Select all* checkbox to import the content channel in full, or select only certain topics or resources. As you keep selecting, you will see the total number and size on disk under *Resources selected:*, and the remaining space on the destination drive.
7. Click **Export** button once you finish selecting all the desired content.
8. Wait for Kolibri to export the selected content and click **Close**.
9. Once the export is finished, safely disconnect the drive according to the recommended procedure for your operating system, and proceed to import channels on other devices.

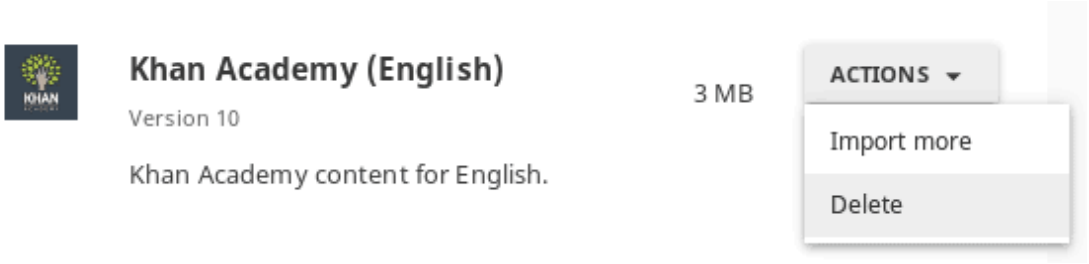
Note: This procedure makes a copy of the `content` folder located inside the `.kolibri` folder on your hard disk, and places it in the `KOLIBRI_DATA` folder on the selected local drive. This structure is recognized by the **Import from local drive** command.



Delete Channel

To delete a content channel from your device, follow these steps.

1. Click **Actions** for the channel you want to delete.
2. Select **Delete** option.
3. Click **Delete** to proceed, or **Cancel** to exit without deleting the channel.



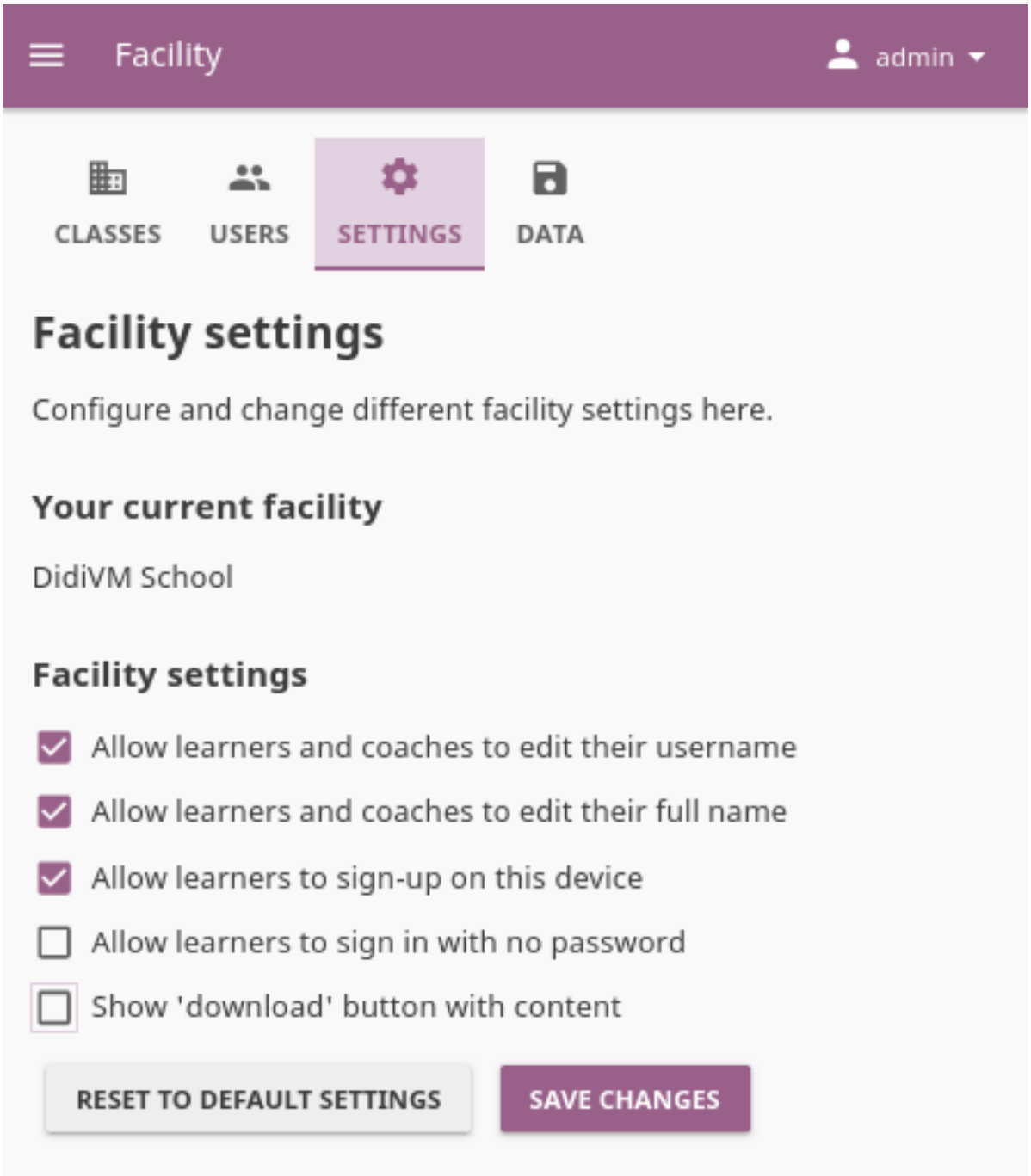
Peer-to-Peer Content Synchronization

`Stay tuned!`

3.3.4 Manage Facility

You can edit facility configuration settings in Kolibri from the **Settings** tab in your **Facility** dashboard (icon).

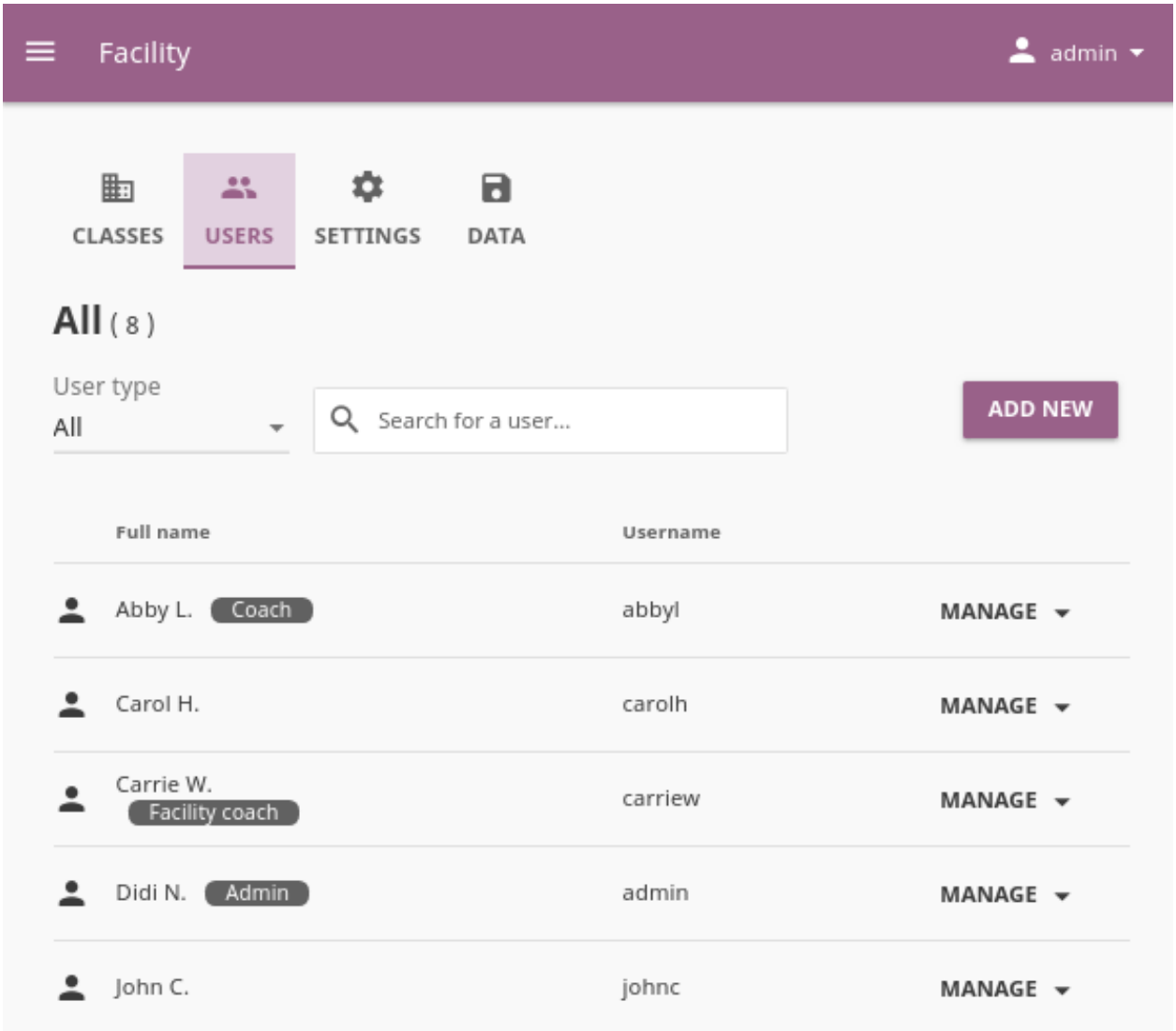
1. Activate the options you want to make available for the users of your facility. You have the possibility to allow users to:
    - edit their full names and usernames
    - sign in without password (except Admin users)
    - download content items (videos, documents, etc.) on their own devices
    - allow guests to sign up and use Kolibri
2. Click **Save changes** to apply and finish.



Note: To manage facility settings in Kolibri you must sign in as **Superuser** or **Admin**.

3.3.5 Manage Users

You can search for, filter, add, and edit user accounts in Kolibri from the **Users** tab in your **Facility** dashboard (icon).



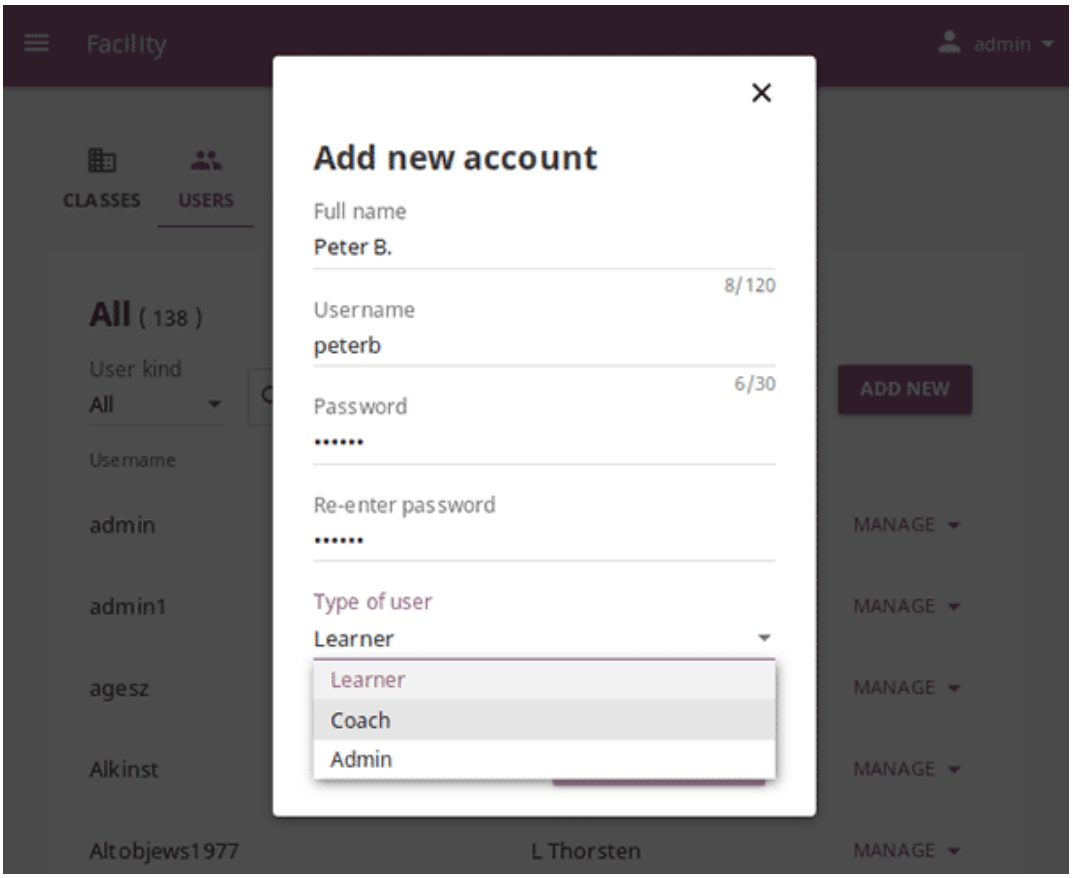
Note: To manage Kolibri users you must sign in as **Superuser** or **Admin**.

Create a New User Account

To create a new user account, follow these steps.

1. Click **Add New** button.
2. Fill in the required information (name, username, password).

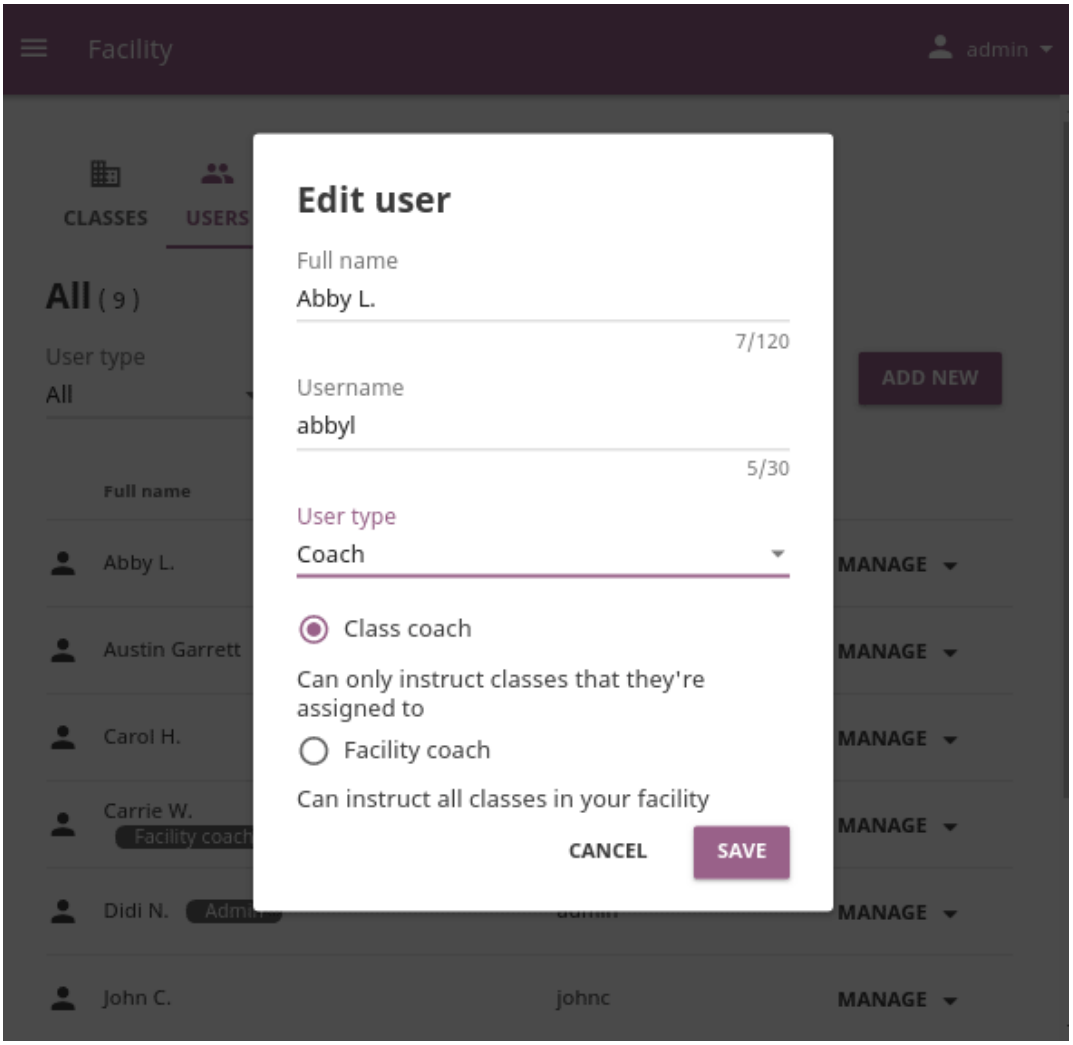
3. Select user profile (*Admin*, *Coach* or *Learner*).
4. Click **Create Account** to add the new user.



Coach Type

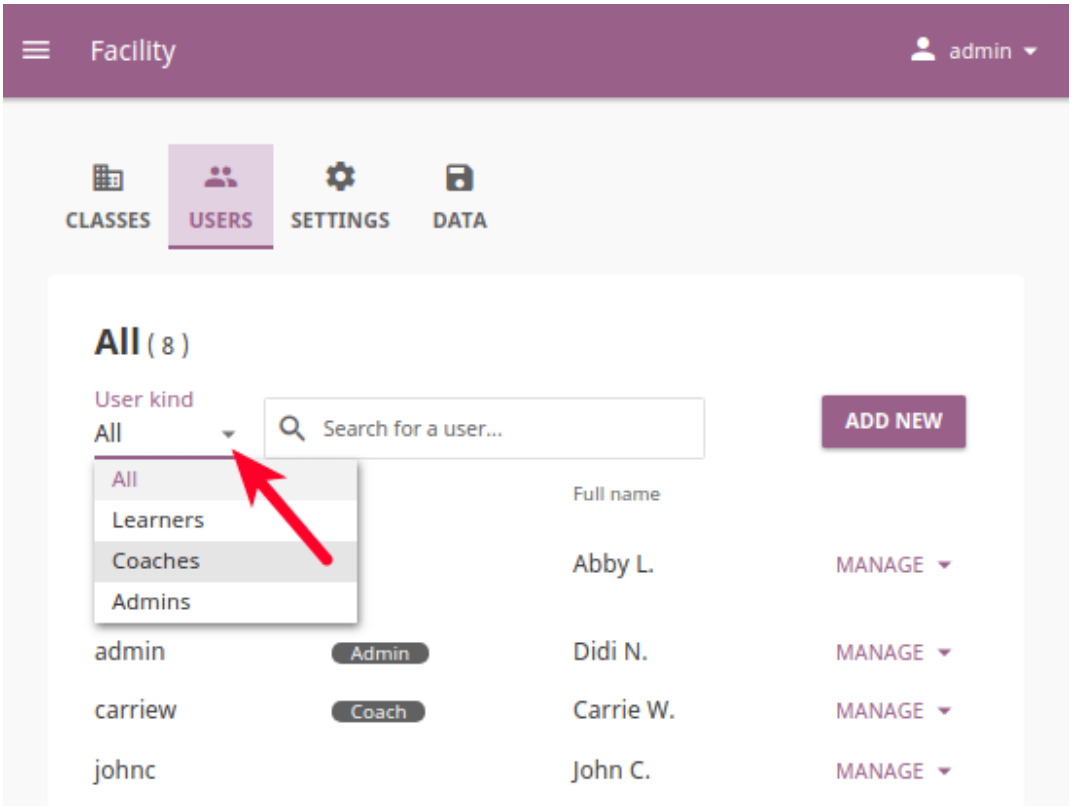
When you create a new *Coach* user account, or change the role to *Coach* for an existing user, you can choose between:

- **Class coach**, that will have access to the coach dashboard and permissions to instruct ONLY the learners in the classes they are assigned to.
- **Facility coach**, that will have access to the coach dashboard and permissions to instruct ALL the classes and the learners in the facility.



Select Users by Type

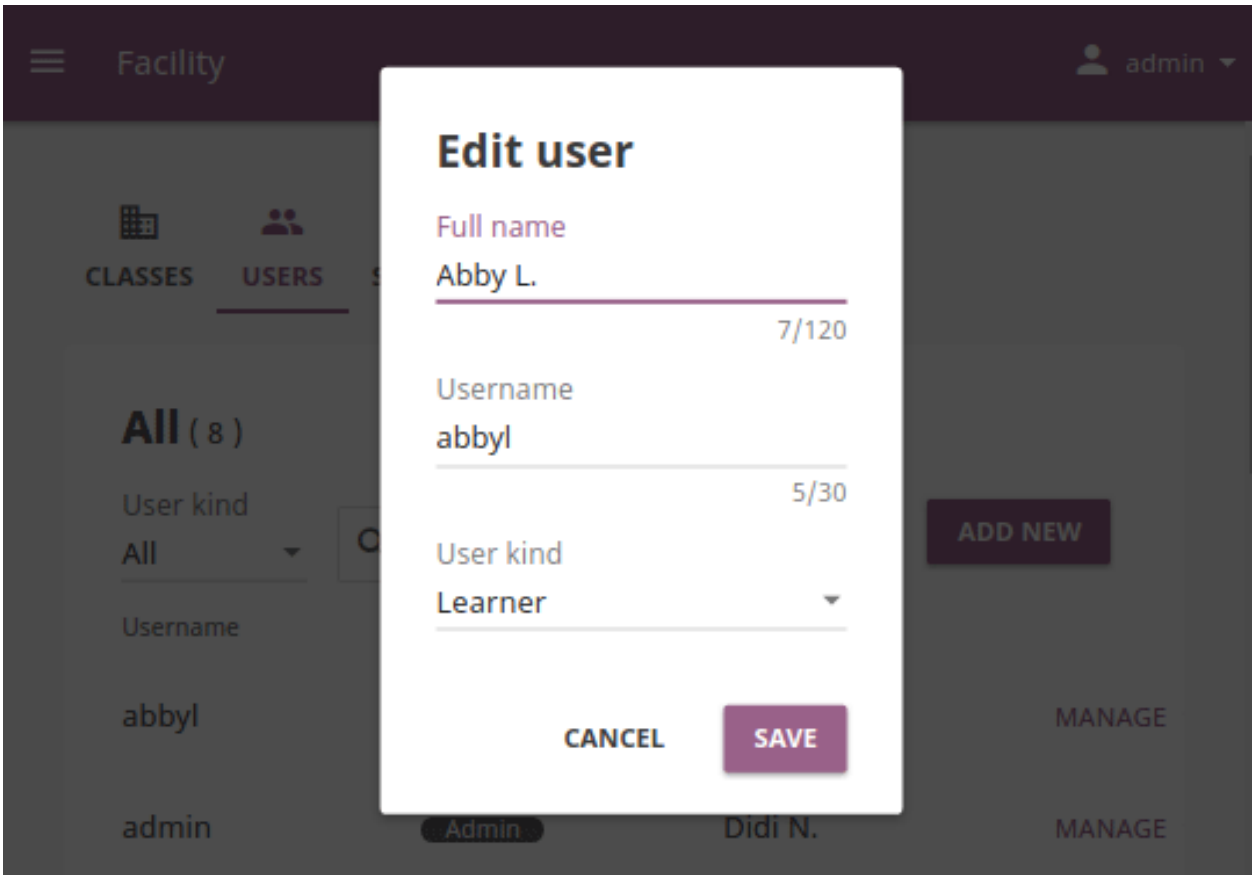
1. Click **All Users** selector to display user types.
2. Toggle between options to filter the user roster according to type, or leave it as **All Users** to display all.



Edit User's Account

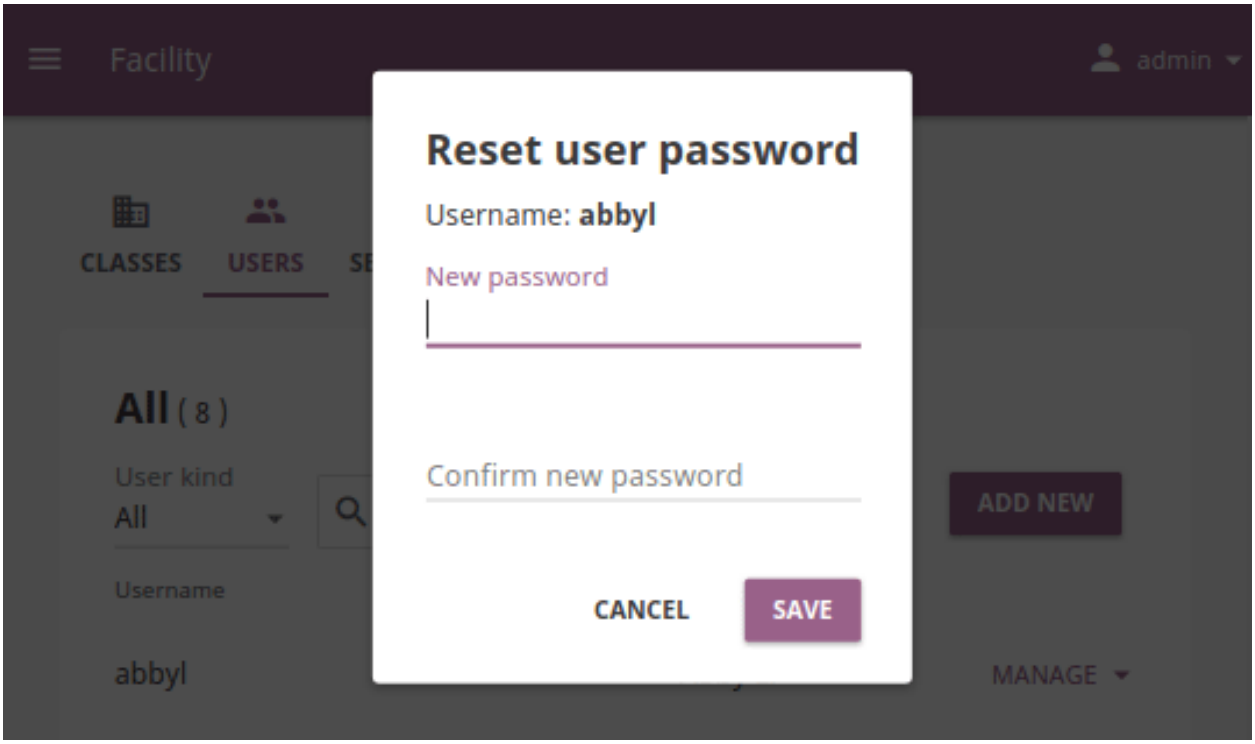
To edit username, full name or account type, follow these steps.

1. Click on the **Manage** button for the desired user and select the **Edit** option.
2. Edit **Full name** or **Username** in the **Edit user** window.
3. Click **Save** to update the edited information, or **Cancel** to exit without saving.



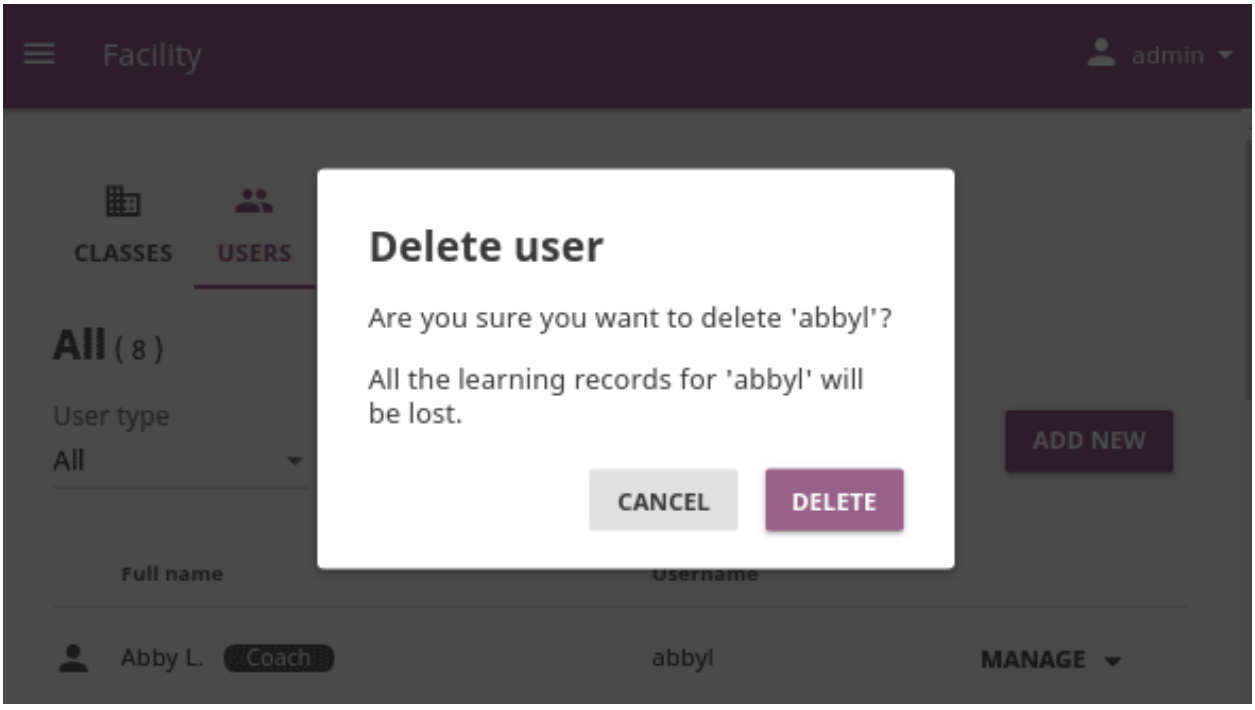
Reset User's Password

1. Click on the **Manage** button for the desired user and select the **Reset password** option.
2. Enter the new password in both fields.
3. Click **Save** to confirm, or **Cancel** to exit without changing the password.



Delete User's Account

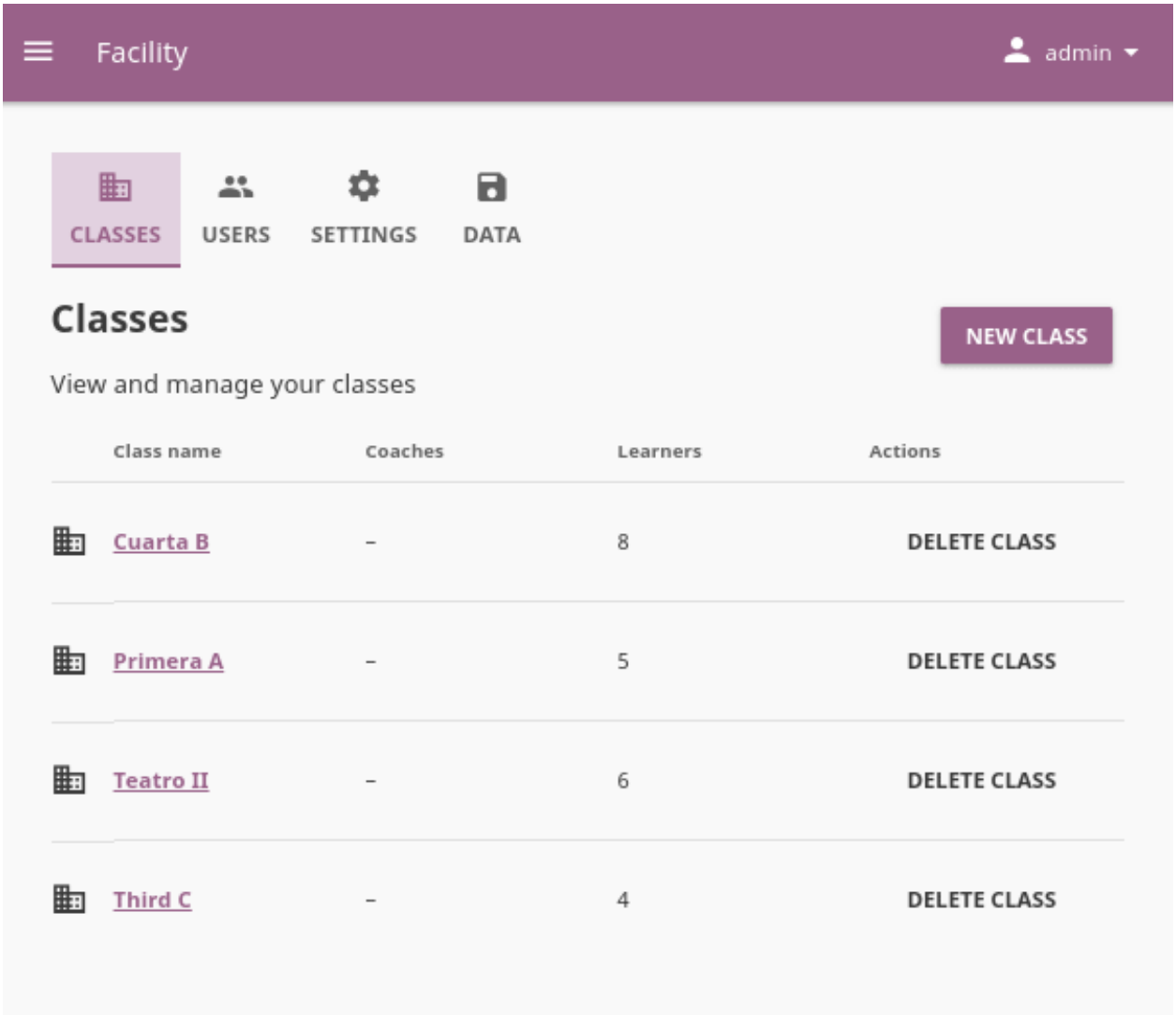
1. Click on the **Manage** button for the desired user and select the **Delete** option.
2. Click **Delete** to confirm, or **Cancel** to exit without deleting the account.



Warning: When you delete a user, all their learning records will be erased from the database.

3.3.6 Manage Classes

You can view, create and delete classes, as well as search, filter and enroll Kolibri users in them, using the **Classes** tab in your **Facility** dashboard (icon). Default view displays the list of all classes in your facility, with the number of enrolled users for each class.



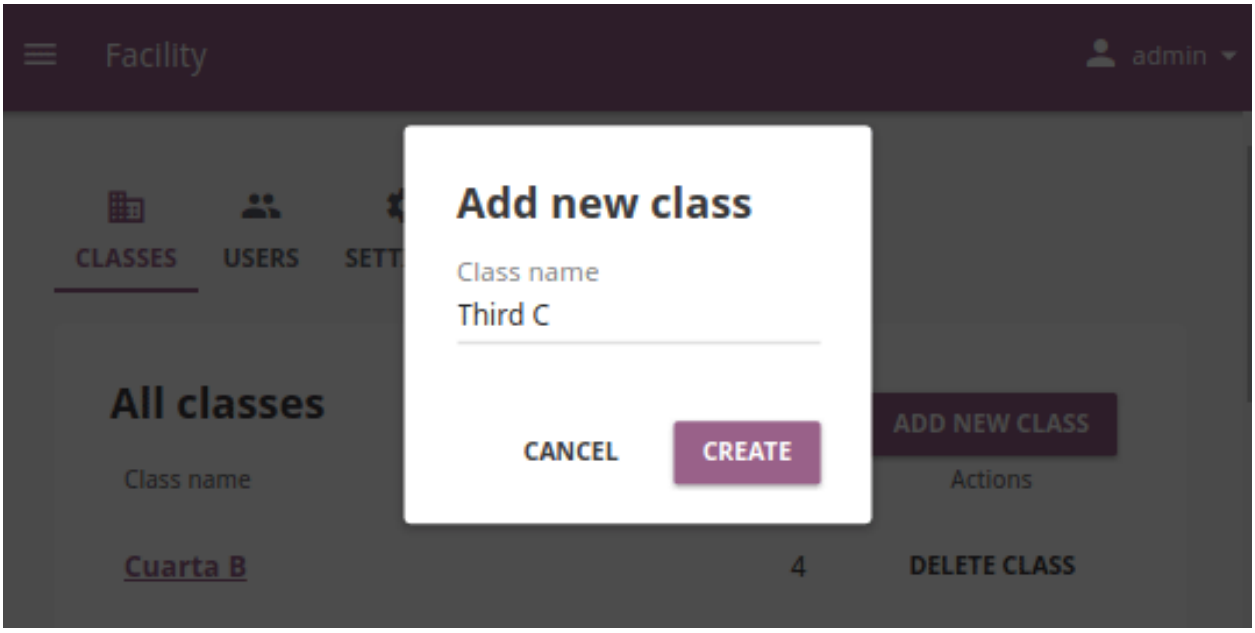
Note: To manage Kolibri classes you must sign-in as **Superuser** or **Admin**.

Add New Class

To add a new class, follow these steps.

1. Click **New class** button.

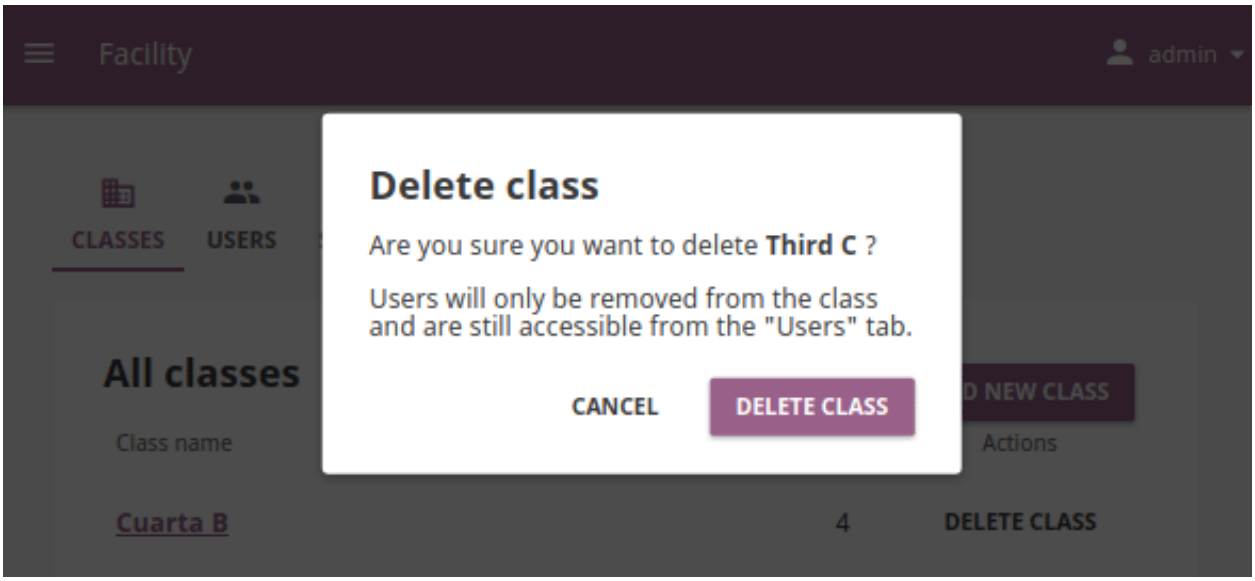
2. Fill in the class name.
3. Click **Create** to add the new class, or **Cancel** to exit.



Delete Class

To delete class, follow these steps.

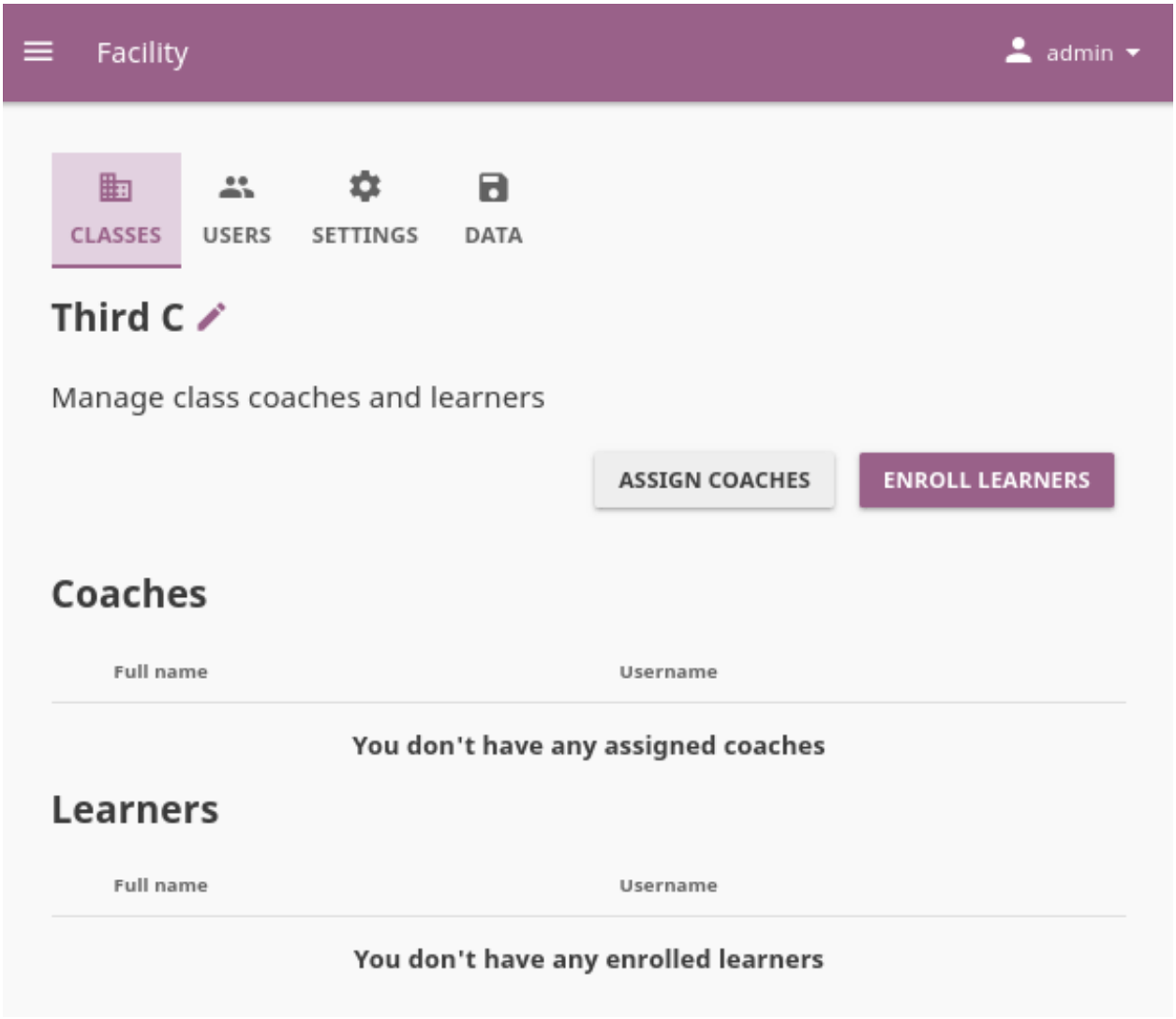
1. Click **Delete class** button for the chosen class from the list.
2. Click **Delete class** in the confirmation window to proceed, or **Cancel** to exit without deleting the class.



Note: Users enrolled in the class you are deleting will not be removed from the database.

Edit Class, Learners and Coaches

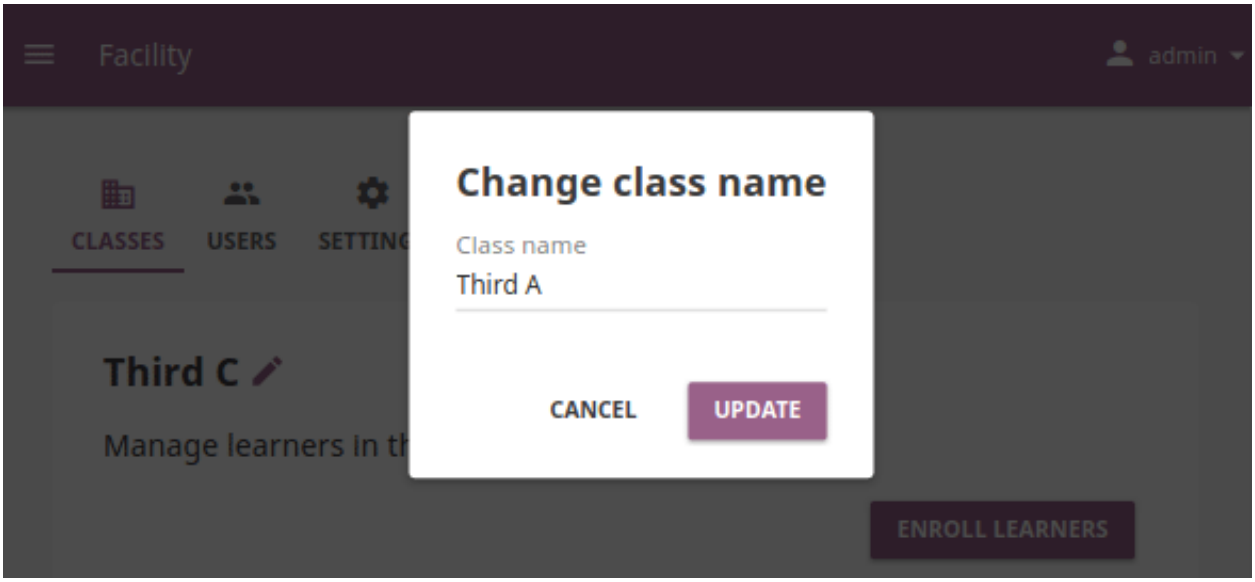
A newly created class does not have any learners or coaches. To edit a class select it from the default view in the **Classes** tab. In this view, you can change class name, add or remove currently enrolled learners and assign or remove coaches from the class.



Change Class Name

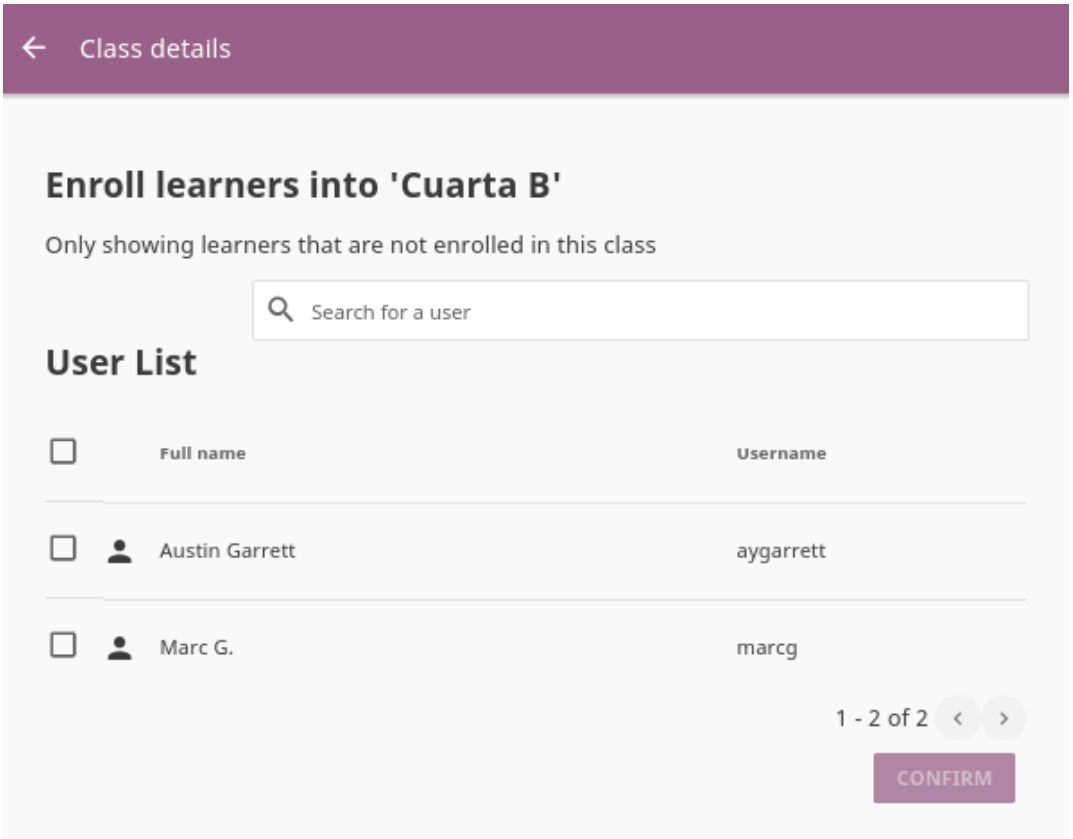
To edit class name, follow these steps.

1. Click on the **Edit** button (icon) next to the class' name.
2. Write the new name in the **Class name** field.
3. Click **Update** to confirm the edited information, or **Cancel** to exit without saving.



Enroll Learners in Class

1. Click the **Enroll learners** button on the class details page.

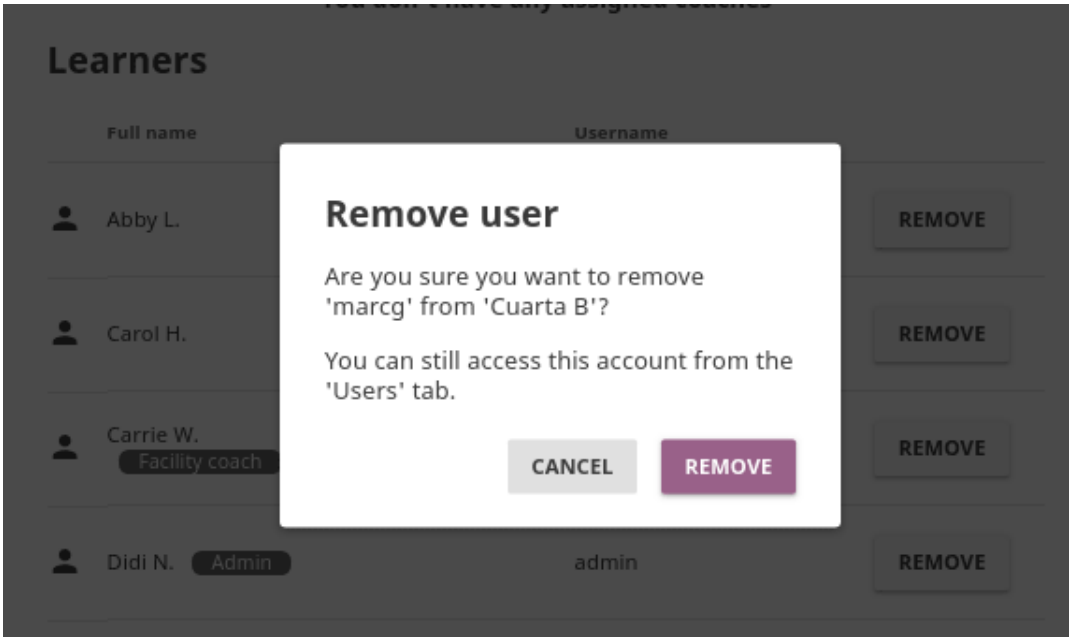


- List in this view contains all the learners currently **NOT** enrolled for the selected class.
- You can search for a specific learner by name.

2. Use checkboxes to select all the learners in the list, or the search field for specific learners you want to enroll to class.
3. Click **Confirm** button to finish enrolling the selected learners.

Remove Learners from Class

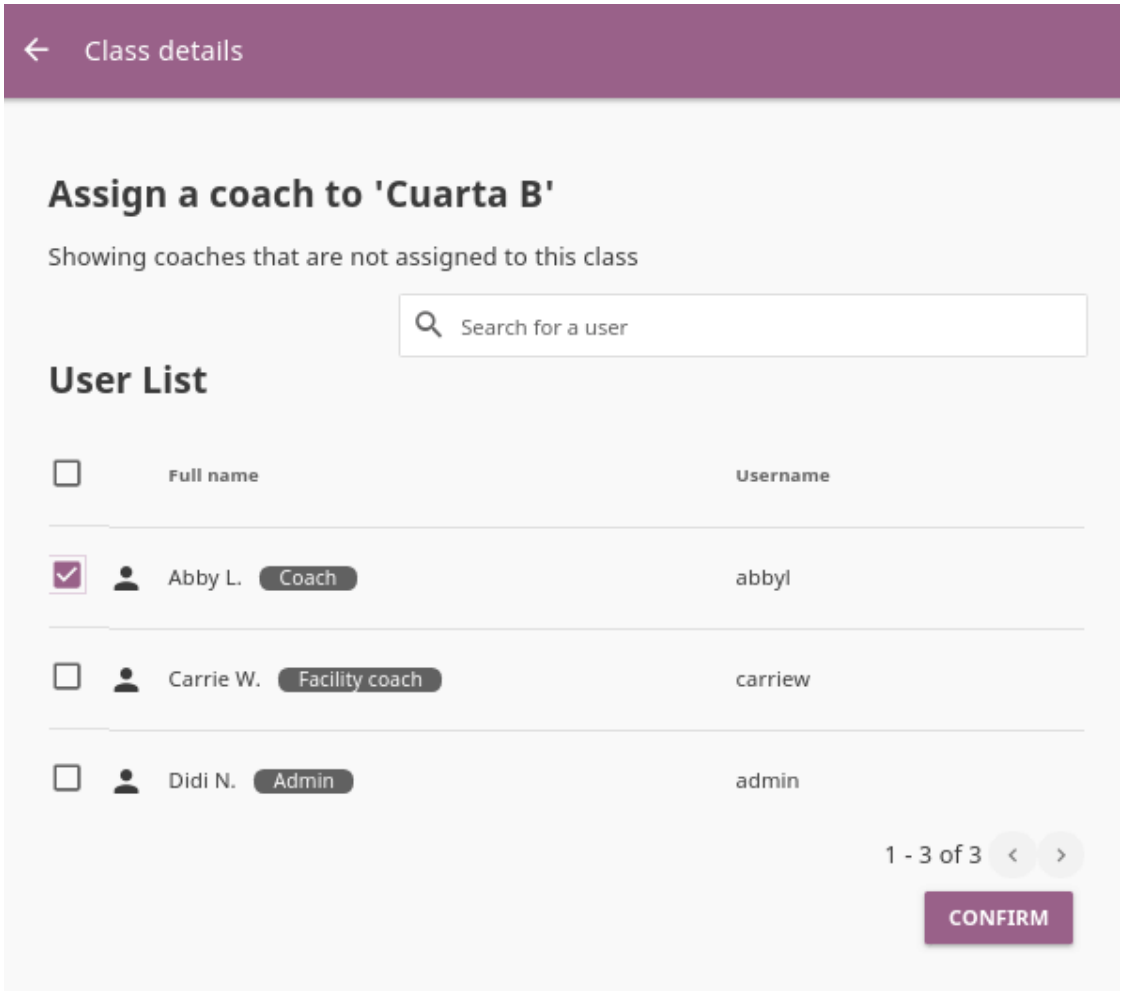
1. Click **Remove** button for the chosen learner.
2. Click **Remove** to confirm, or **Cancel** to exit without removing the learner.



Note: Learners removed from the class will not be deleted from the database, and you can still access their accounts from the **Users** tab in the **Facility** dashboard.

Assign Coaches to Class

1. Click the **Assign coaches** button on the class details page.

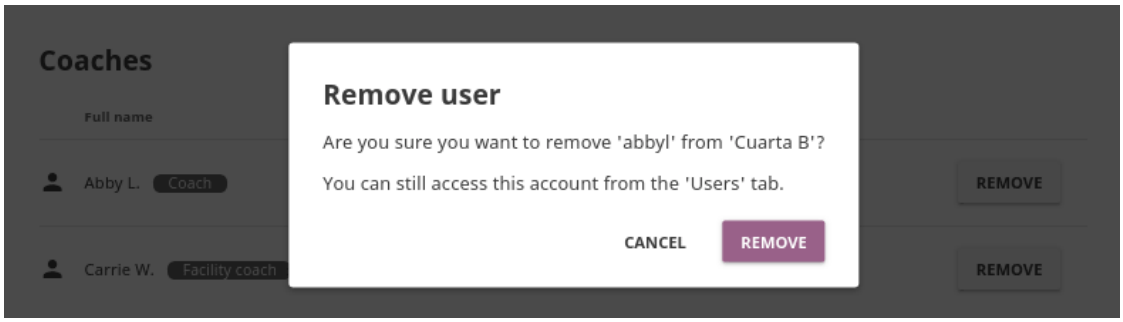


- List in this view contains all the users with *Coach*, *Facility coach* or *Admin* roles.
- You can search for a specific user by name.

2. Use checkboxes to select all the users in the list, or the search field for specific users you want to assign as a coach to class.
3. Click **Confirm** button to finish.

Remove Coaches from a Class

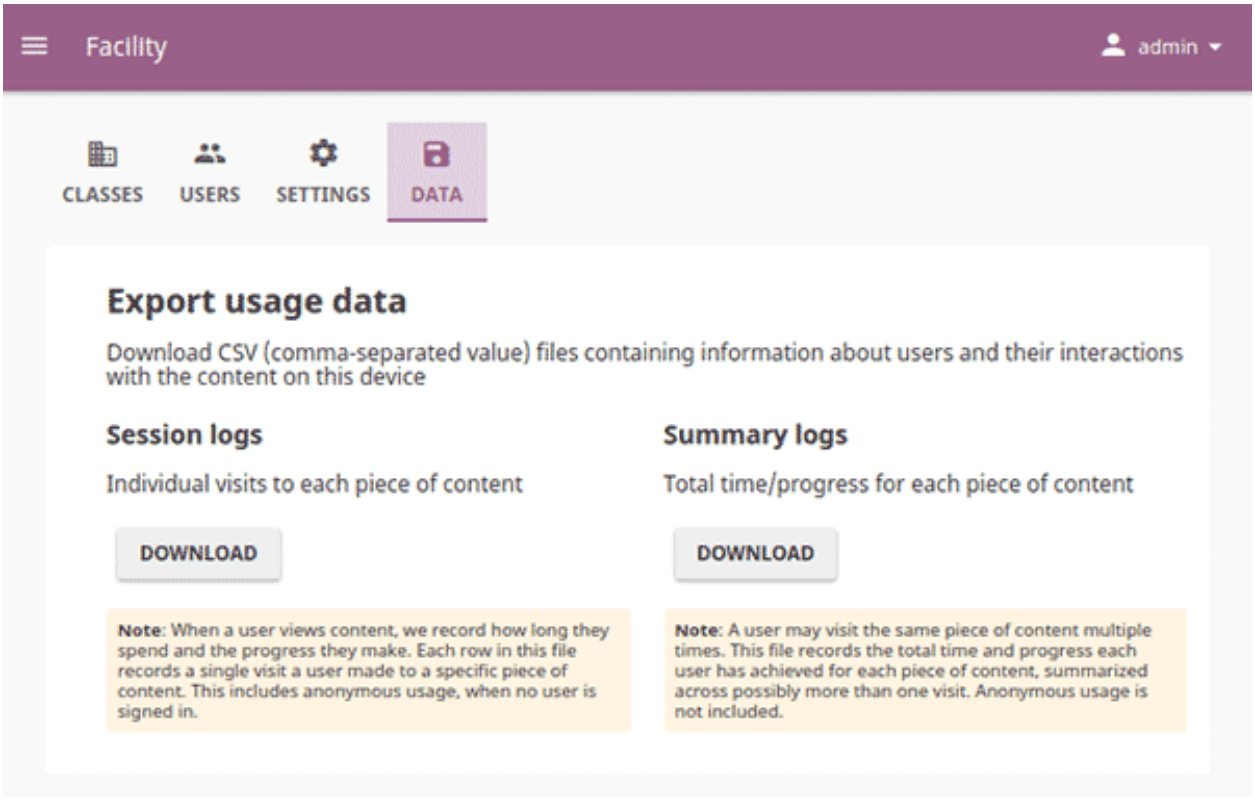
1. Click **Remove** button for the chosen user.
2. Click **Remove** to confirm, or **Cancel** to exit without removing the coach.



Note: Coaches removed from the class will not be deleted from the database, and you can still access their accounts from the **Users** tab in the **Facility** dashboard.

3.3.7 Manage Data

You can download Kolibri *Detail* and *Summary* logs usage data and export in the CSV format from the **Data** tab in your **Facility** dashboard (icon).



Note: To manage Kolibri users you must sign-in as **Superuser** or **Admin**.

3.3.8 Working with Kolibri from the Command Line

Warning:

- In Windows you need to open `cmd.exe` Command prompt in the folder where Kolibri executable is located: `c:/Python34/Scripts`.
- On macOS you may need to prefix the commands with `python`, for example `python kolibri start`.
- If you are running Kolibri with the `PEX` file, make sure to substitute the `kolibri` in below commands **with the exact name of the file you downloaded** preceded by `./`. For example, to start Kolibri from the downloaded file `kolibri-v0.10.pex`, type `./kolibri-v0.10.pex start`.
- Make sure not to include the angle brackets "< >" in the commands below.*

If you see errors in the prompt/terminal output while running the commands below, ask for help at our Community Forums, or file an issue on GitHub.

Start/Stop Kolibri

In case you need to troubleshoot potential problems while running Kolibri, you may try to start it manually from the command line.

```
kolibri start --debug --foreground
```

```
kolibri stop
```

Run Kolibri from a Different Port

If you need to change the default port `8080` from which Kolibri is serving content, add the following flag to the previous command.

```
kolibri start --port <new-port-number>
```

Import Content Channels from Internet

To import content channels from Internet, run these two commands in sequence. The first downloads the channel database, and the second downloads the resources (videos, documents, etc.).

```
kolibri manage importchannel -- network <Channel ID>
kolibri manage importcontent -- network <Channel ID>
```

Warning: When you import content channels from the command line, you still must use the **32 digit channel ID**, as the *command will not work with the token*. Make sure to receive the correct channel ID from the person who curated the unlisted channel you need to import, or refer to Kolibri Studio user guide how to find it in Studio user interface, if you have channel editor access.

Export Content Channels

To export Kolibri content channels on a local drive in order to share it with another device, run these two commands in sequence. The first exports the channel database, and the second exports the resources (videos, documents, etc.).

```
kolibri manage exportchannel -- <Channel ID> /path/to/local/drive/KOLIBRI_DATA
kolibri manage exportcontent -- <Channel ID> /mount/mydrive/KOLIBRI_DATA
```

The path should be to a folder named `KOLIBRI_DATA` at the root of the local drive, so it will get picked up later for importing via the Web UI.

Create a New Superuser

In case you need to create another **Superuser**, either to address additional need of managing facility, or if you lost the password for the old one, run the following command.

```
kolibri manage createsuperuser
```

You will be prompted to input the **Username** and **Password** and the new **Superuser** user account will be created.

Change Language

```
kolibri language setdefault <langcode>
```

Language	<langcode>
English	`en`
Spanish (Spain)	`es-es`
French	`fr`
Swahili (Tanzania)	`sw-tz`
Arabic	`ar`
Farsi	`fa`
Hindi (India)	`hi-in`
Urdu (Pakistan)	`ur-pk`
Marathi	`mr`
Chinyanja	`nyn`
Portuguese (Brasil)	`pt-br`
Telugu	`te`
Tamil	`ta`

Backup and Restore Kolibri Database

Kolibri automatically creates a backup of the database with every version upgrade. If for some reason you need to make a manual backup, use the following command.

```
kolibri manage dbbackup
```

This command will create a time-stamped `.dump` file in the `./kolibri/backups` folder that you can use to restore the database with the following command.

```
kolibri manage dbrestore --latest
```

If you need to restore a backup version prior to the latest one, you must specify the full path to a specific `*.dump` file.

```
kolibri manage dbrestore ~/.kolibri/backups/db-xxxx.dump
```

Warning: This command is not intended for replication across different devices, but **only** for restoring on a single device from a local backup of the database.

Change the Location of Kolibri Content Files

Kolibri content channels may occupy a considerable amount of hard disk space over time. If you have concerns about running out of storage on your device, you can move the Kolibri **content files** to another drive.

Tip: If you have both SSD disk and HDD disk available on your device, it is recommended to install Kolibri on the SSD drive to allow faster access to the database, and move just the content file to the HDD drive.

To move the Kolibri content folders to another location, follow these steps.

1. Stop Kolibri.

   ```
   kolibri stop
   ```

2. Create a new folder that will contain all the content files and resources on the destination drive.

   ```
   kolibri manage content movedirectory <destination>
   ```

   For example, if you created a new folder `KolibriContent` on an external drive, run this command.

   ```
   kolibri manage content movedirectory /mnt/my_external_drive/KolibriContent
   ```

   If you are on Windows, and the new folder `KolibriContent` is on the drive `F:`, run this command.

   ```
   kolibri manage content movedirectory F:\KolibriContent
   ```

3. Restart Kolibri.

This command will move the 2 subfolders `databases` and `storage`, from their default location inside the `.kolibri/content` folder in your device's home directory, to a new location you specified in the command.

Change the Location of ALL Kolibri Files

If you want to change the directory where all of Kolibri's runtime files are located, together with the imported content channels, you need to change the environment variable called `KOLIBRI_HOME` to the path of your choice.

If the variable is left unset, by default, Kolibri's runtime files and content will be placed in your user's home folder, under the `.kolibri` subfolder.

Note: Adjusting this environment variable behaves differently than the `movedirectory` command above:

- Adjusting the environment variable will not automatically migrate over data. You need to copy the `.kolibri` folder manually to the new location.
- If you do copy the `.kolibri` folder, the content will not be affected **if it had been previously set** using the `movedirectory` command.

There are many ways to set an environment variable either temporarily or permanently. To start Kolibri on **OSX or Linux** with a different home, follow these steps.

1. Stop the server.
2. Move the `.kolibri` folder to the new location.
3. Run the following in Terminal:

```
KOLIBRI_HOME=/path/to/new/home kolibri start
```

When you start the server again, all your files should be seamlessly detected at that location.

To change the environment variable `KOLIBRI_HOME` on **Windows**, follow these steps.

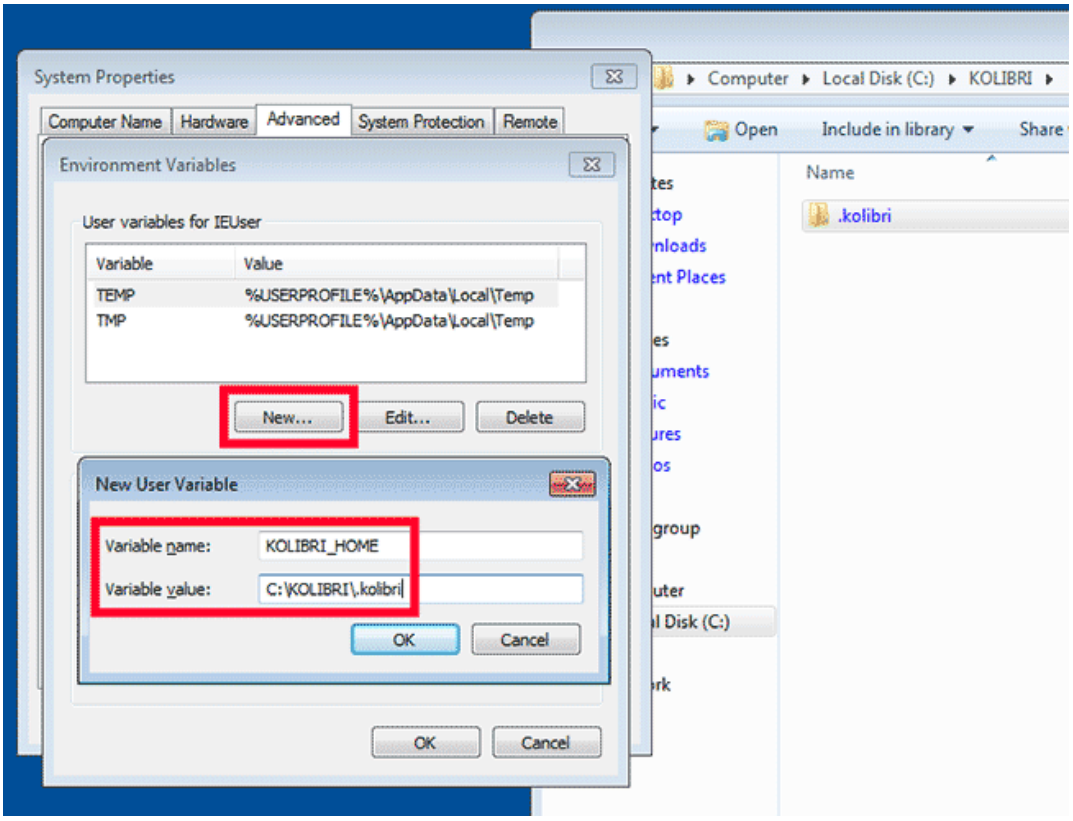
1. Stop the server.
2. Move the `.kolibri` folder to the new location.
3. Run the following in Command Prompt:

```
setx KOLIBRI_HOME "/path/to/new/home"
```

Restart the server, and your files should be seamlessly detected at the new location.

Alternatively, you can follow these steps in the GUI.

1. Go to **Computer > Advanced System Settings** and press the **Environment Variables** button.
2. Under **User Variables for...** press the **New...** button.
3. Input the new path and press **OK** on both open windows.



4. Restart Kolibri.

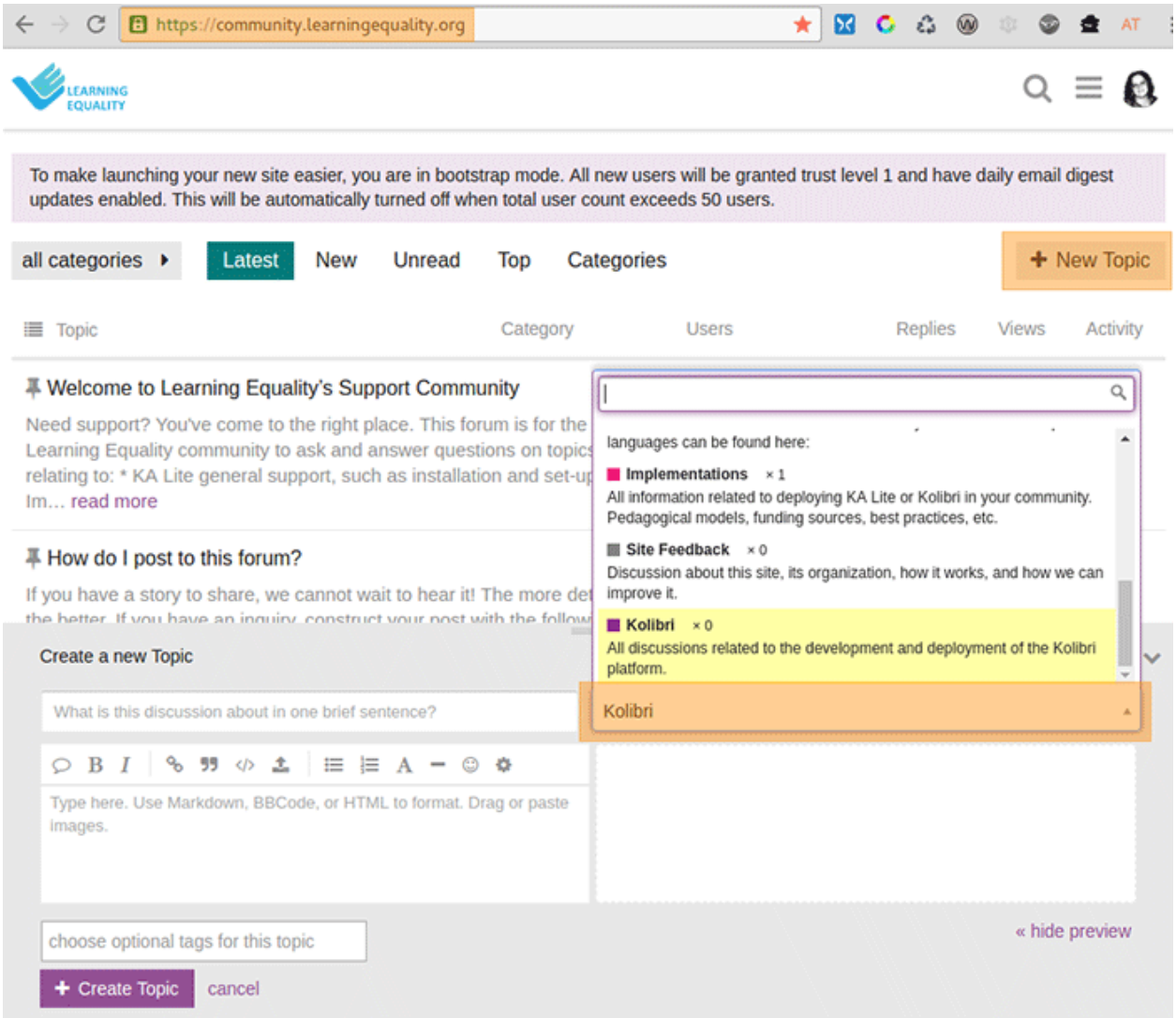
3.3.9 Support and Troubleshooting

Report a problem with Kolibri

If you want to contact the **Learning Equality** Support team to report an issue, or share your experience about using Kolibri, please register at our Community Forums.

Once you register on our forums, please read the the first two pinned topics (*Welcome to Learning Equality Support Community* and *How do I post to this forum?*)

You can add a new topic with the **+ New Topic** button on the right. Make sure to select the **Kolibri** category in the **Create a New Topic** window so it's easier to classify and respond to.



Our technical users, including software developers, should follow the instructions on our Developer documentation for reporting bugs.

Locate Kolibri log files

When you report a problem with Kolibri, we may ask you to send us Kolibri **log** files to help us find out why is it not working or crashing.

Open the `.kolibri` folder inside the *Home* folder of the device where Kolibri is running and locate these two files:

- `kolibri.log`
- `debug.log`

Warning: On Linux and MacOS systems you will need to activate the *Show Hidden Files* option in your file browser, in order to view the `.kolibri` folder.

Troubleshoot Network Issues

1. Can you access Kolibri when you type `http://127.0.0.1:8080` in the address bar of the browser?
2. Can you access anything from the *external IP* of the device running Kolibri **FROM** the device itself?
3. Can you ping the external IP address from another device on the network? For example, if Kolibri is on a device/computer with IP address `192.168.0.104`, type this in the Terminal or Command prompt:

```
ping 192.168.0.104
```

About IP addresses

- `0.0.0.0` = A special IP address on the **server** (your device running Kolibri and "serving" its content to others in the local network), which actually means "all available IP addresses". It's a kind of alias. But accessing `0.0.0.0` from another computer doesn't make sense and doesn't work. By default, Kolibri will serve on `0.0.0.0`, which essentially means all IP addresses that are available on the device will render Kolibri accessible.
- `127.0.0.1` = A device's local IP address, meaning "myself". Some people joke and say "There's no place like 127.0.0.1", meaning "there's no place like home" :) This can be used on the serving device itself to test that Kolibri is running, in case you need a failsafe way of checking that Kolibri is in fact running and responsive.
- `192.x.y.z` = Addresses starting with `192` are local network IP addresses. The same thing can be said about `10.x.y.z`. The address that you wanna use to enter on the clients/tablets in order to contact the server will in most cases start with `192` or `10`.
- Port number: Kolibri runs on port `8080`. When you access something on an IP address, you need a port. Ports can be open or closed on the server, but they can also be regulated by firewall rules on the way. `http://` <- this is the protocol that the browser reads out from the "URL", which is just some text that describes Kolibri.
- `http://192.168.1.1:8080` means: "Connect to IP address `192.168.1.1` on port `8080` with the HTTP protocol". The browser will the continue to try to reach this address, but may fail for instance if Kolibri isn't running, or if a step along the way blocks access.

Troubleshoot Database Issues

In case you receive the `database disk image is malformed` error in Terminal, try running these commands (note that **you must have the** `sqlite3` **command available on your system**).

```
sqlite3 ~/.kolibri/db.sqlite3 .dump | sqlite3 fixed.db
cp fixed.db ~/.kolibri/db.sqlite3
```

For further assistance, please report the issue on our Community Forums, stating the operating system and Kolibri version.

Videos are not playing

Make sure to check the *system requirements* to see if you can support video playback. Please report any issues on our Community Forums, stating the operating system and browser you are using.

Problems with import and export from USB drives

Kolibri needs read and write access to USB drives in order to import and export content. There are several possibilities why you may encounter issues during this procedure.

- **User account does not have access**:
  - you installed Kolibri in your own environment running as a non-desktop user (for instance UWSGI)
  - you have upgraded Kolibri on Debian from a version prior to v0.10. Follow these instructions to *change the ownership of Kolibri system service* from one user account to another
  - to grant access to USB drives to other accounts, refer to the documentation of your operating system
- **Write access denied**: Some USB drives will experience problems when they are unplugged from the computer in an "unclean" way. If you are denied access to write, look for options to "fix" or "repair" the file system.
- **Data failures**: Copying the data can take a long time. If you do not see the final success confirmation message after the copy apparently finishes, do not assume that the data has been imported or exported correctly. Restart the process instead, otherwise you risk inconsistent and malfunctioning content data.
- **Hardware life expectancy**: SD and flash storage drives can "expire". Reading and writing large quantities of content data, especially on older or models with smaller capacity, may produce data errors over time.

3.4 Coach your Learners in Kolibri

You can track progress of the **Learners**, create and assign **Lessons** and **Exams** to classes or learner groups from the **Coach** dashboard. The default view of the **Coach** dashboard presents the list of **Classes** with their assigned coaches, and the number of learners enrolled in each class.

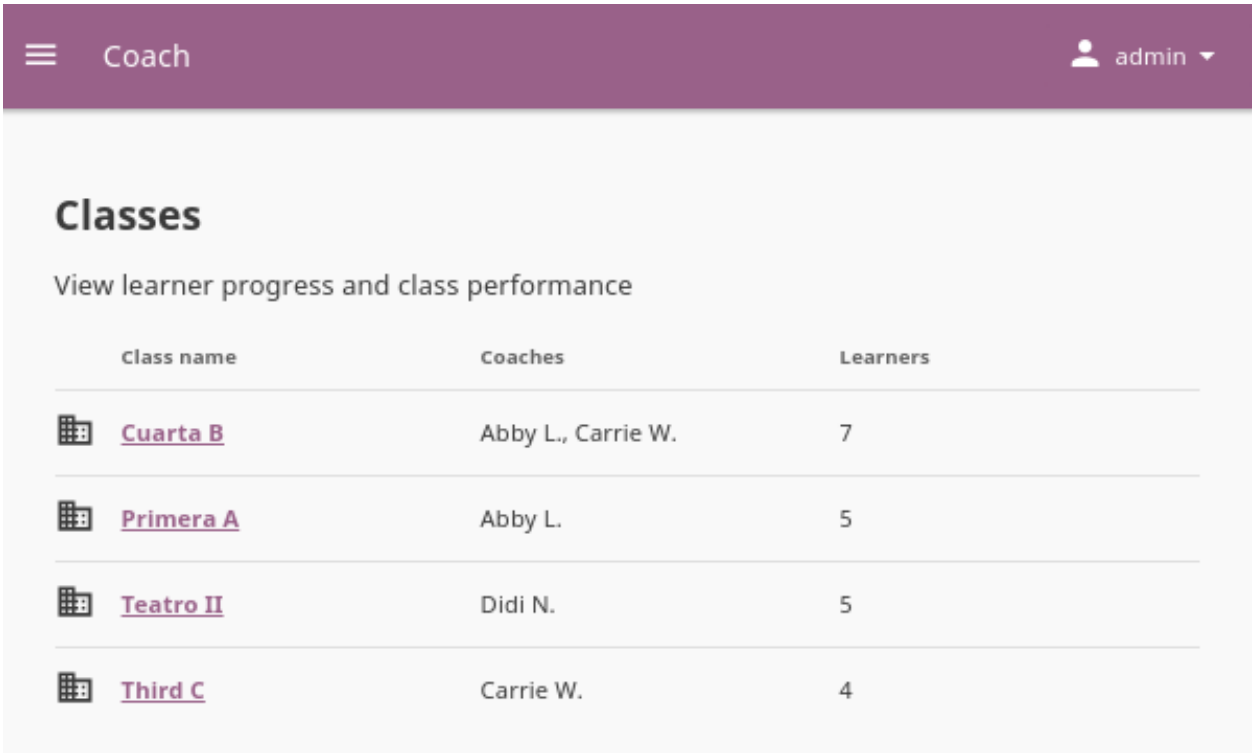
Click on a class to access the progress-tracking features and create lessons and exams.

3.4.1 View Learner Reports

Click the desired class inside the initial view of the **Coach** dashboard, and it will open the **Learners** tab (icon). Here you can see the list of learners enrolled in the class, and the group they are assigned to (if applicable).

When you click the username of a learner, you will see a list of content channels they accessed, and the last time they were active on each of them:

Note: In a Learner report, the username of the selected learner will be the last item in the breadcrumb navigation menu.



Navigate the topic tree of each channel to see the progress of the selected learner for the topics, subtopics and individual resources. As you navigate, you will see topics added to the breadcrumbs menu.

In the image below, you can see that the learner **Abby L.** accessed and completed only one of the subtopics from the topic **Addition and Subtraction to 10**:

Review Exercise Progress

When a learner answers exercise questions in Kolibri, the progress bar below the exercise is taking into account only the most recent given answers, meaning that the learner must complete the required number of correct answers (*check marks*) **in the row** for the exercise to be considered completed.

In the example below, the progress bar for the exercise **Subtract within 5** will appear as 40%, because the student has given 2 correct answers within the most recent set of 5 attempts. For example: If this student had made 20 incorrect attempts before the 4 displayed attempts, those 20 incorrect attempts would not get factored into the progress bar.

Click the exercise title to see all the answers and attempts on each question. In the figure below, you can see the progress of the learner **Hansen** for the exercise **Numbers to 120**. The exercise is still **In progress** as the learner has not completed the 5 correct answers in the row. You can also see that for the *Question 13*, the learner has given the correct answer only on the 4th attempt, which indicates that they are still struggling with the given concept.

How does it looks if learner A does 5 correct answers in a row on their first try, but learner B gets 10 wrong answers in a row before giving 5 correct ones in a row? In both cases, the progress would show as 100%, and you would have to click each learner's name to access their progress report and attempt history.

In the figure below, you can see the progress of 5 learners for the exercise **Numbers to 120** in ascending order.

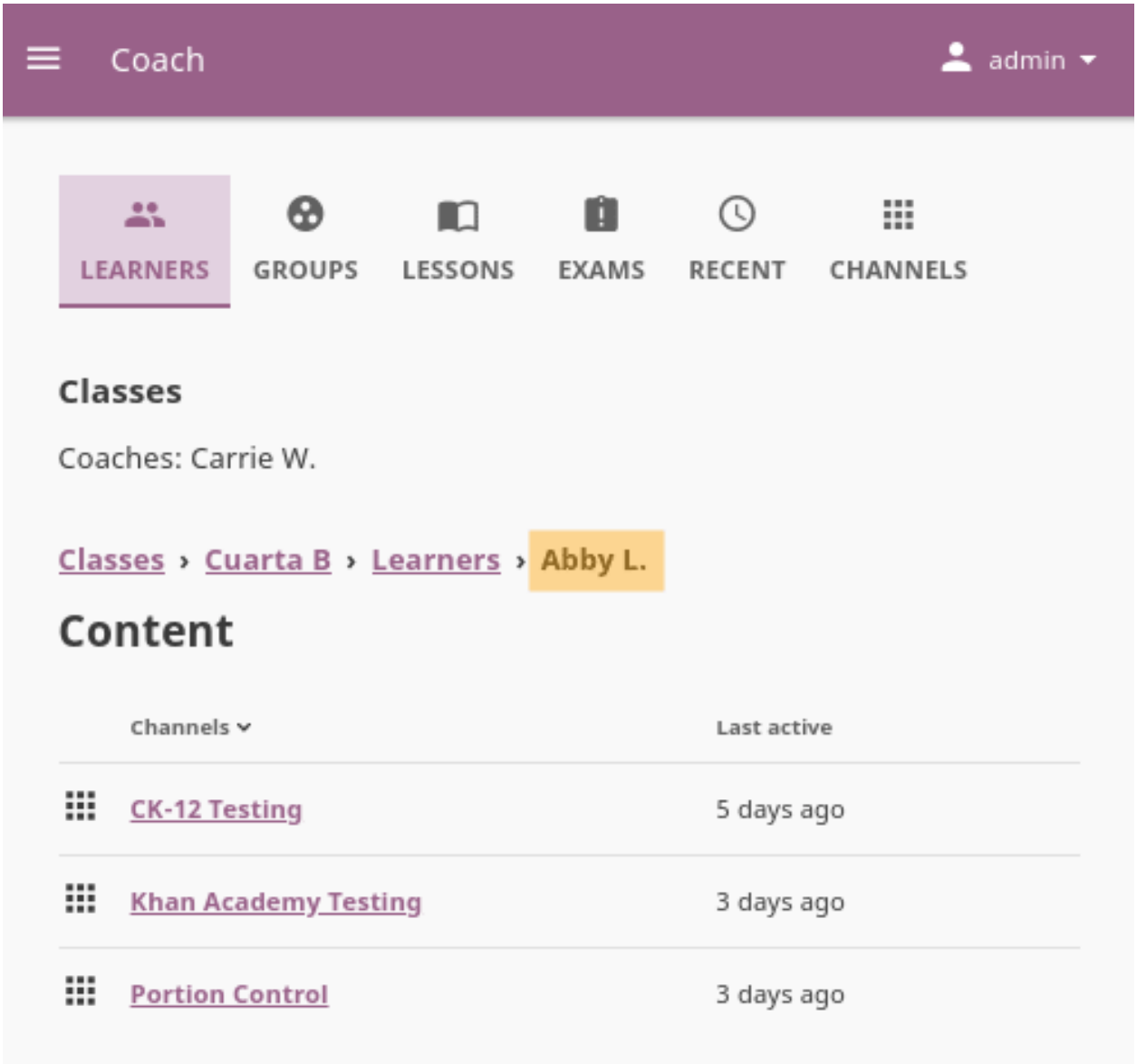


Fig. 10: Learner Reports present a quick view of all the content accessed by a learner.

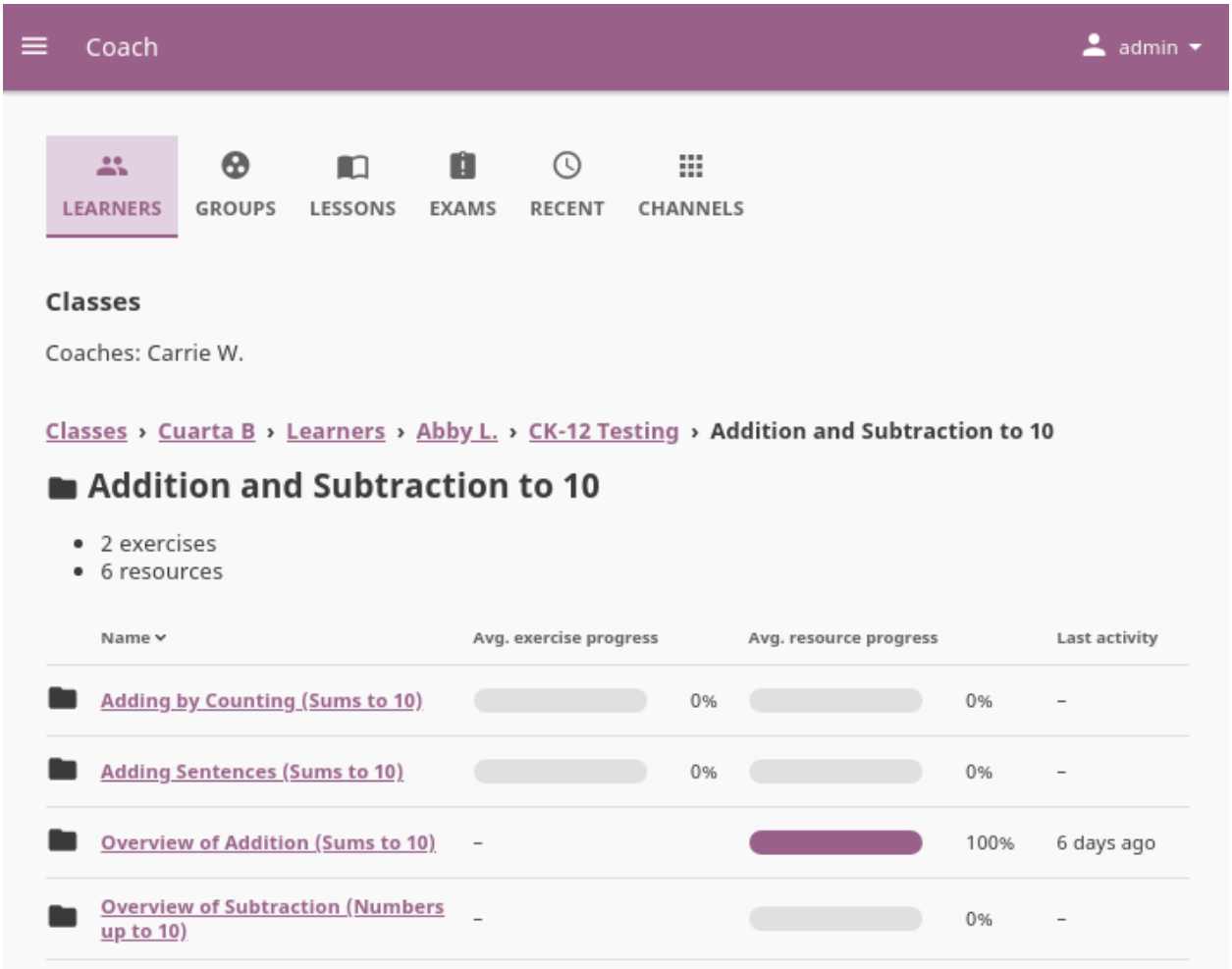


Fig. 11: Learner Reports across topics for the selected content channel.

Fig. 12: The correct answers in the image above are not in a row; this exercise will be completed only after the learner gives 5 correct answers one after another.

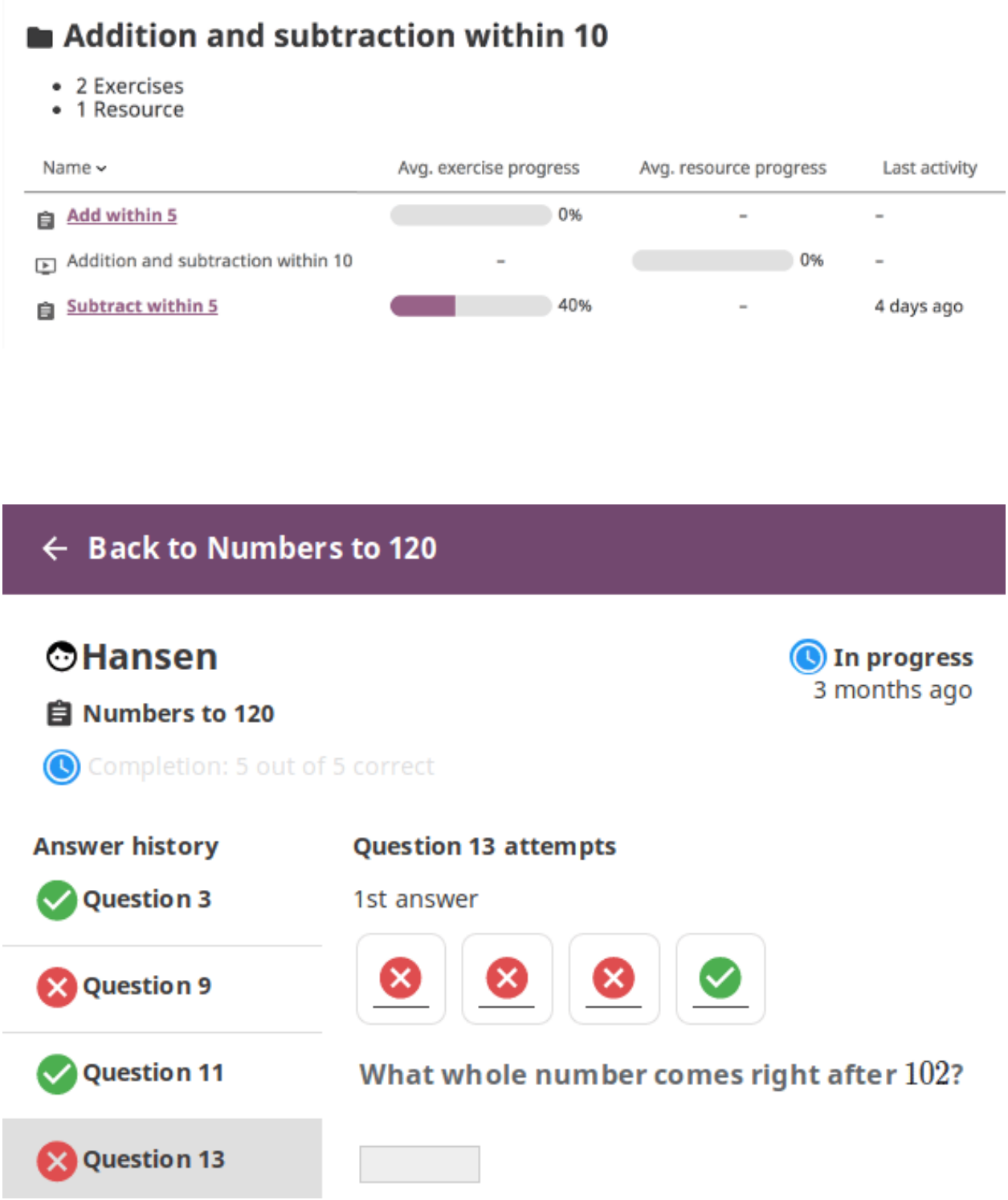


Fig. 13: Details for answers and attempts on a single exercise.

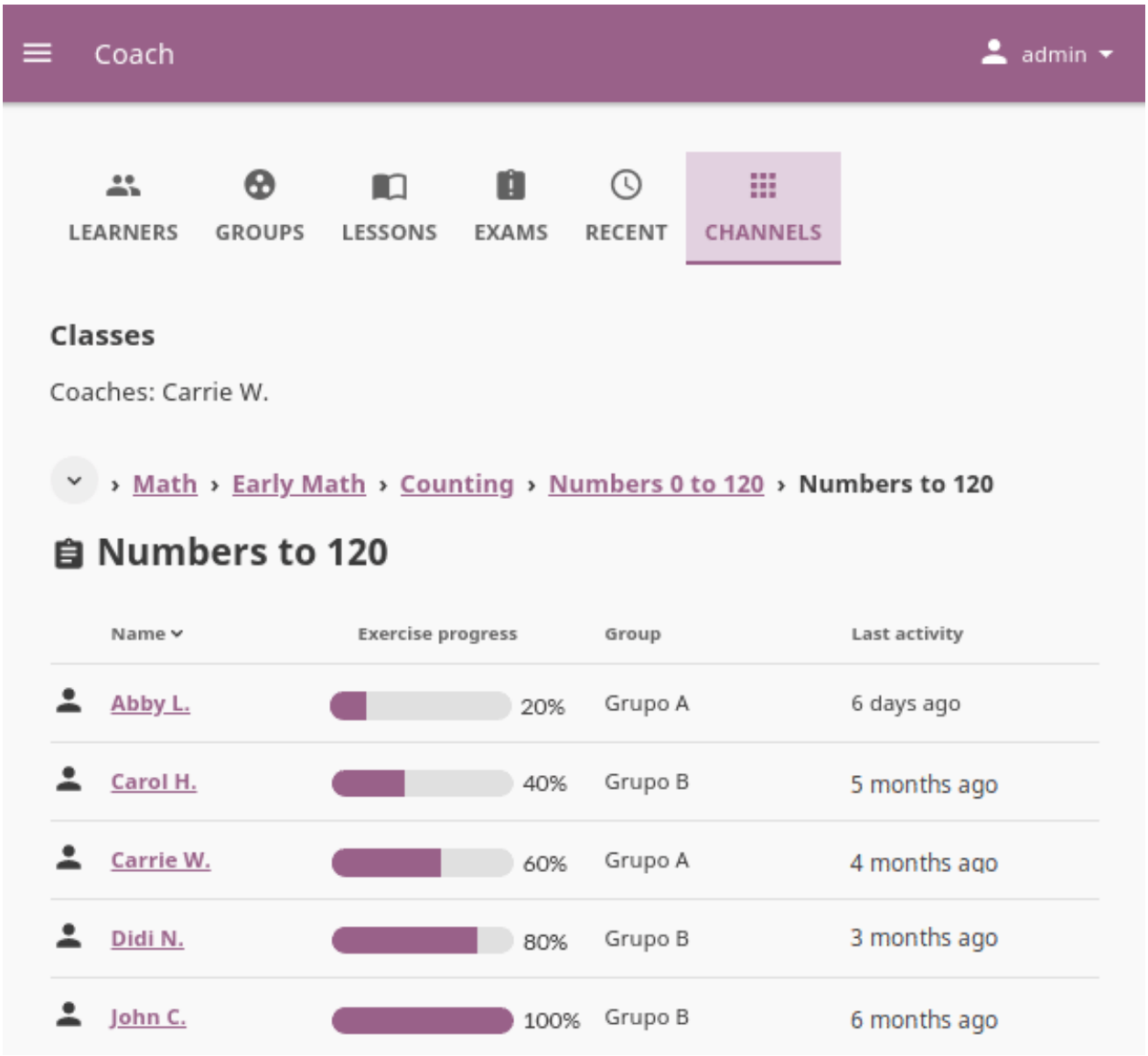
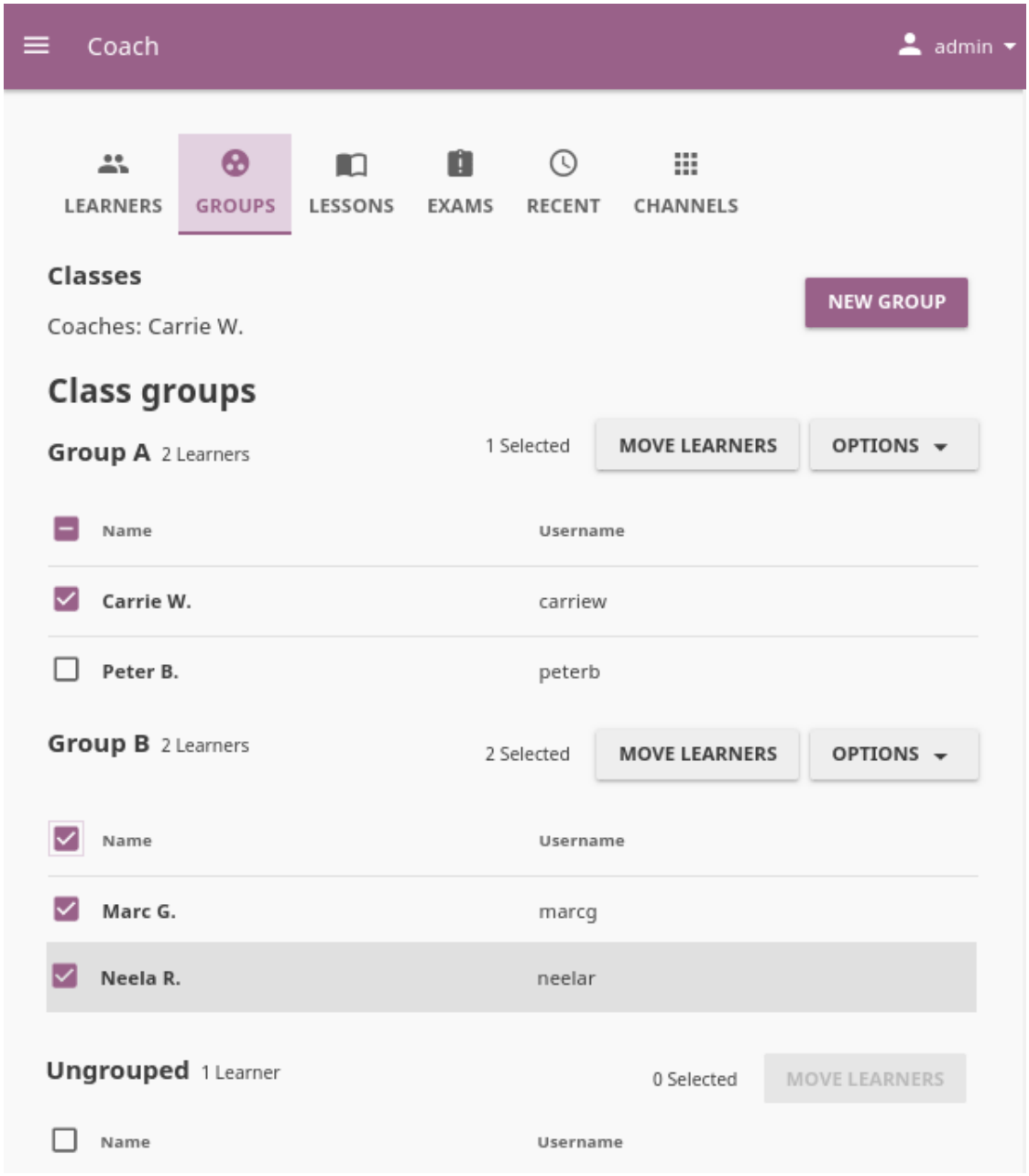


Fig. 14: View the progress for a single exercise or resource in a topic.

3.4.2 Manage Groups

In case you need to further divide learners inside classes, for example to address the different progress needs, you can use the **Groups** feature. Create and delete groups, as well as assign learners to them from the **Groups** tab in your **Coach** dashboard tab (icon). Default view displays the list of all groups for the selected class, with the list of assigned learners for each group.



Note: To manage Kolibri groups you must sign in as **Superuser**, **Admin** or **Coach**.

Create a New Group

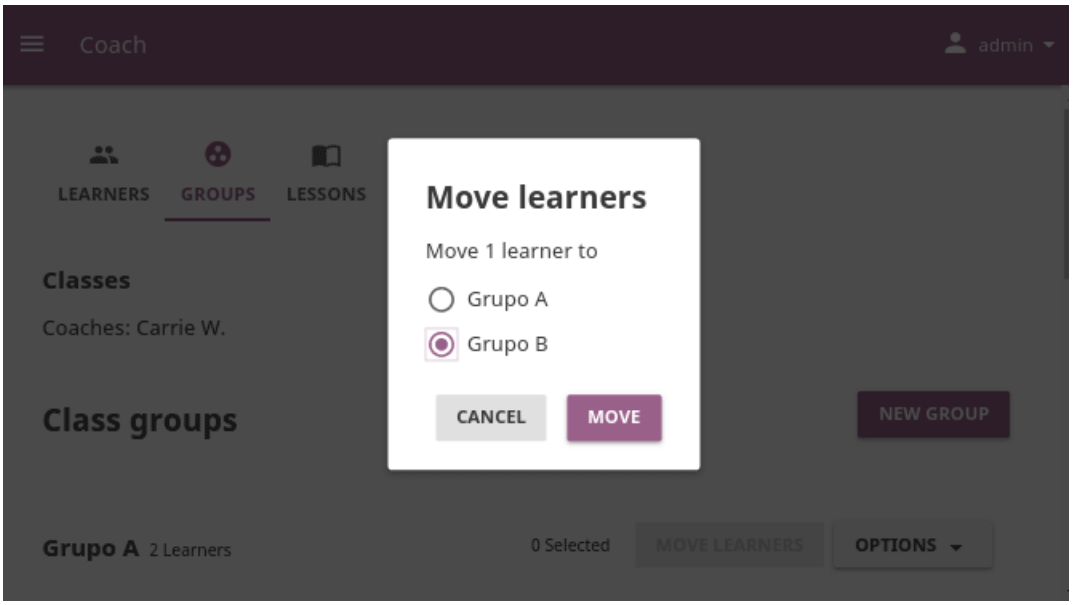
To create a new learner group, follow these steps.

1. Click the **New group** button.
2. Give group a desired name.
3. Click **Save** to confirm, or **Cancel** to exit without creating a group.

Assign Learners to Group

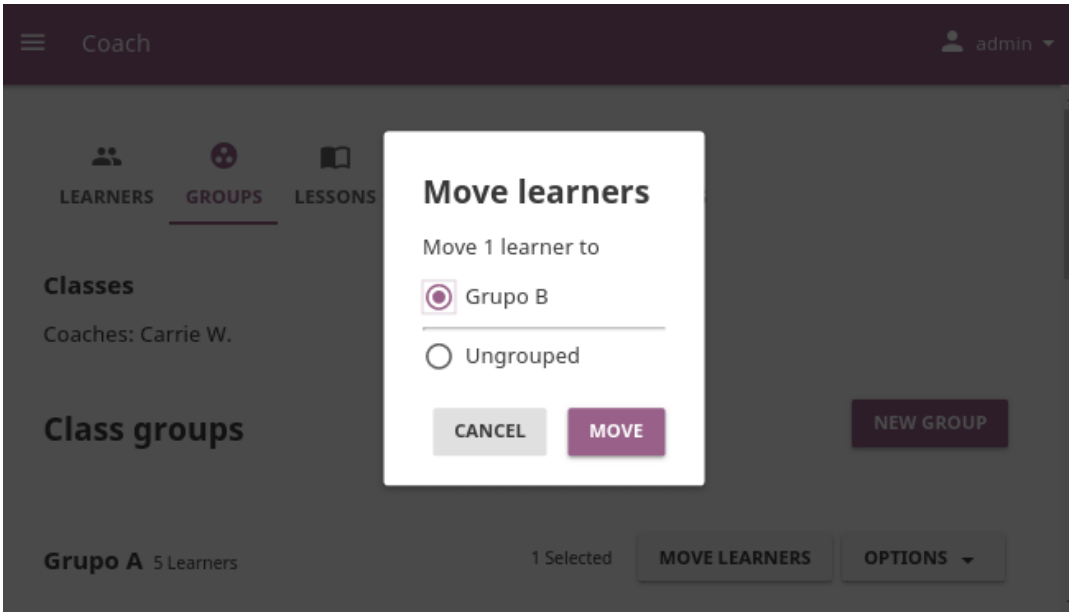
Below the existing groups there is a list with all learners currently **NOT** assigned to any groups.

1. Use checkboxes to select all the learners in the list, or specific ones you want to assign to the group.
2. Click **Move learners** button on the right side of the list.
3. Select the group to which you want to assign the selected learners in the **Move learners** window.
4. Click **Move** to proceed, or **Cancel** to exit without assigning.



Move learners between groups

1. Use checkboxes to select all the user in one group, or specific users you want to assign to another group.
2. Click **Move learners** button on the right side of the origin group.
3. Select the group to which you want to move the selected learners, or the **Ungrouped** option if you want to remove them from the origin group without assigning to a new one.
4. Click **Move** to proceed, or **Cancel** to exit without moving.



Rename Group

To rename group, follow these steps.

1. Click the down arrow icon on the right edge of the desired group.
2. Select the **Rename group** option.
3. Input the new name for the group in the confirmation window.
4. Click **Save** button to proceed, or **Cancel** to exit without renaming the group.

Delete Group

To delete a group, follow these steps.

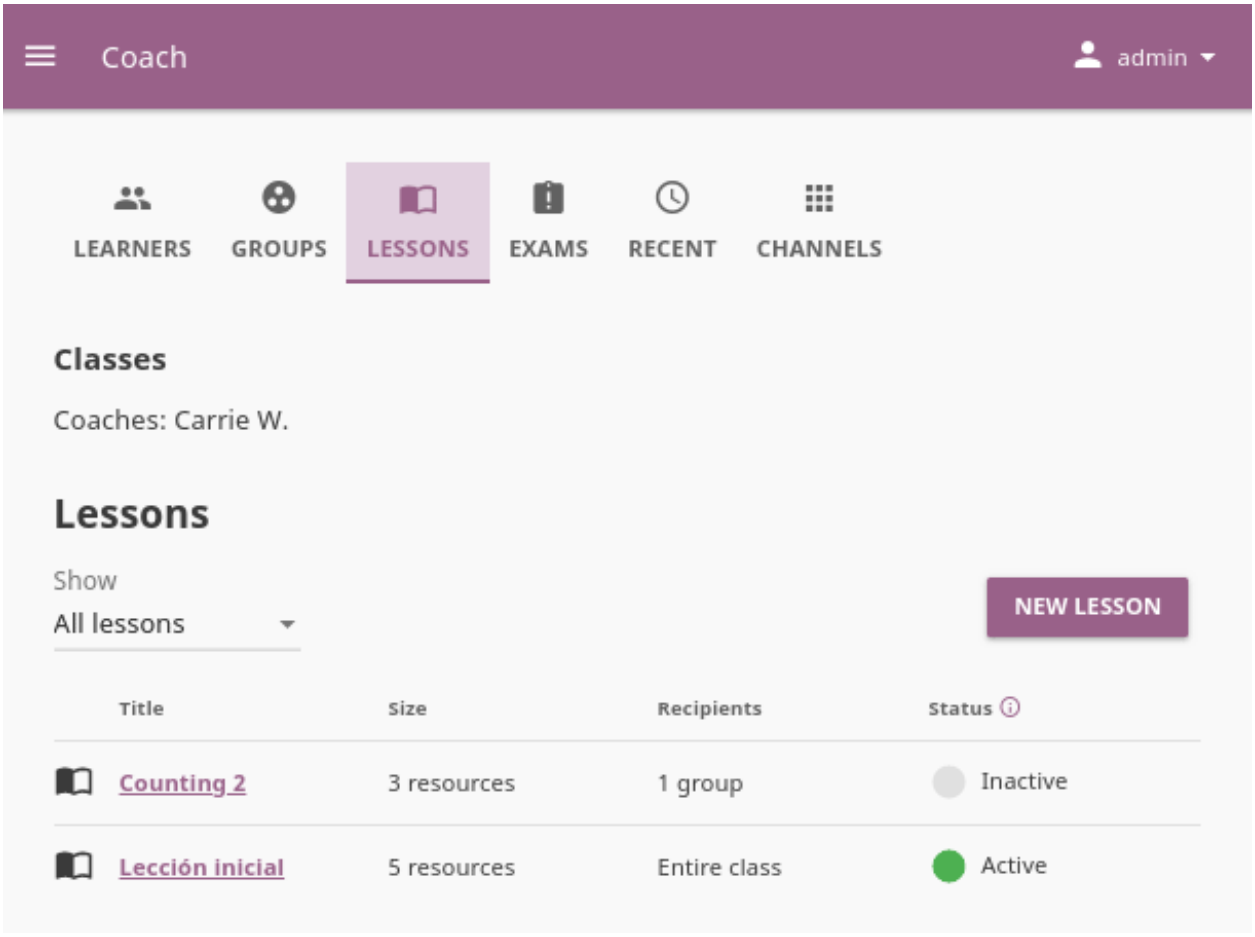
1. Click the down arrow icon on the right edge of the desired group.
2. Select the **Delete group** option.
3. Click **Delete group** button in the confirmation window to proceed, or **Cancel** to exit without deleting the group.

Note: Learners currently assigned to group will become ungrouped.

3.4.3 Manage Lessons

Kolibri **Lessons** offer you the possibility to prepare smaller selections of available learning resources and assign them to learners on a temporary basis. You can select resources from multiple channels, and copy the created lessons to other classes or groups as needed.

To view, create or delete lessons, as well as assign them to learners, use the **Lessons** tab in your **Coach** dashboard tab (icon). Default view displays the list of all lessons created for the selected class, the number of resources they contain, groups they are assigned to, and their status indicator. You can filter the lessons in order to see all, or just active/inactive ones.

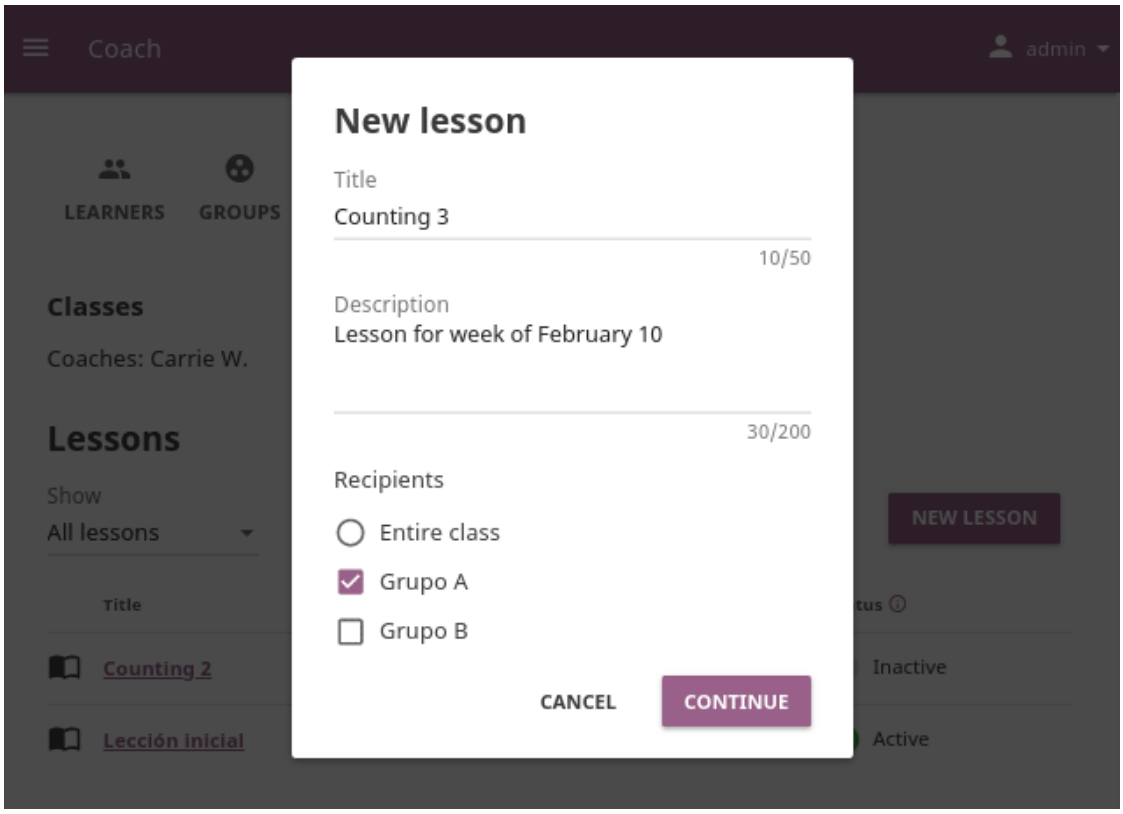


Note: To manage **Lessons** in Kolibri classes and groups, you must sign in as **Coach** or **Admin**.

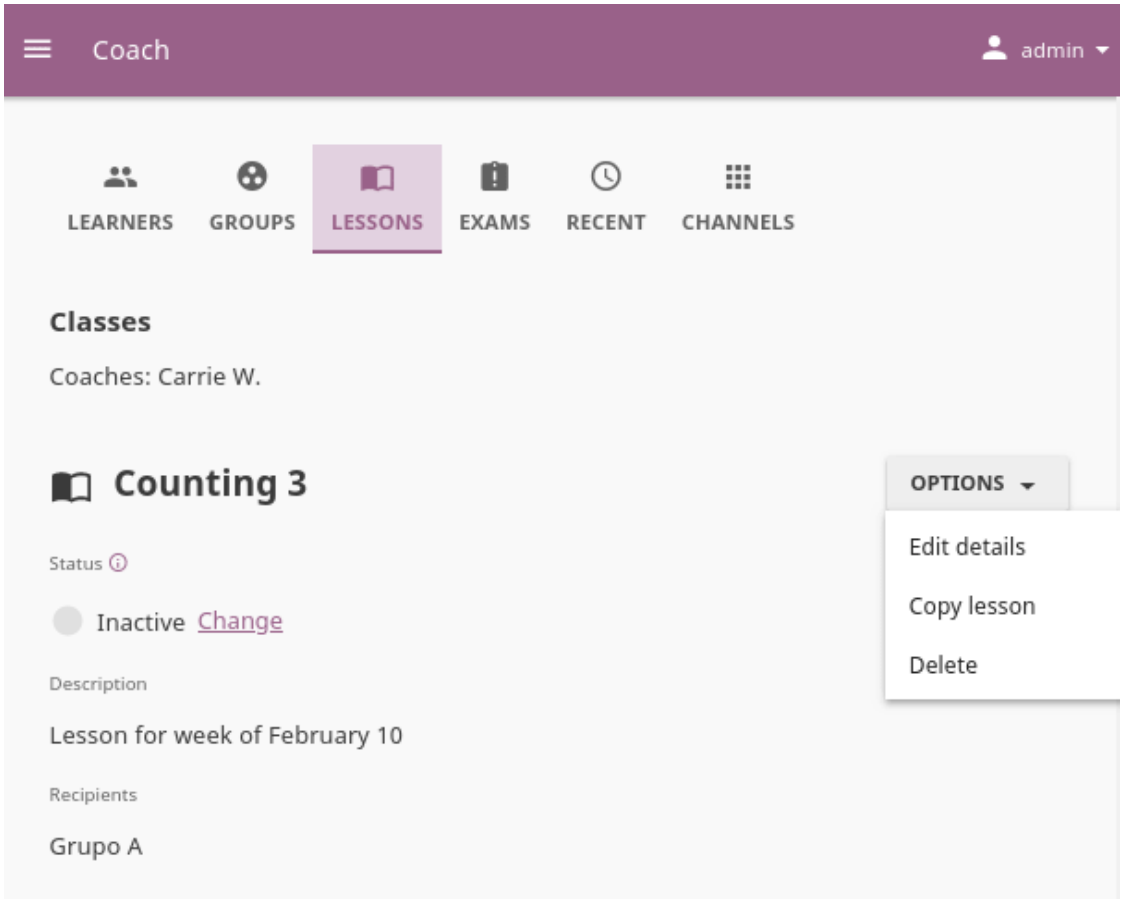
Create New Lesson

To create a new lesson, follow these steps.

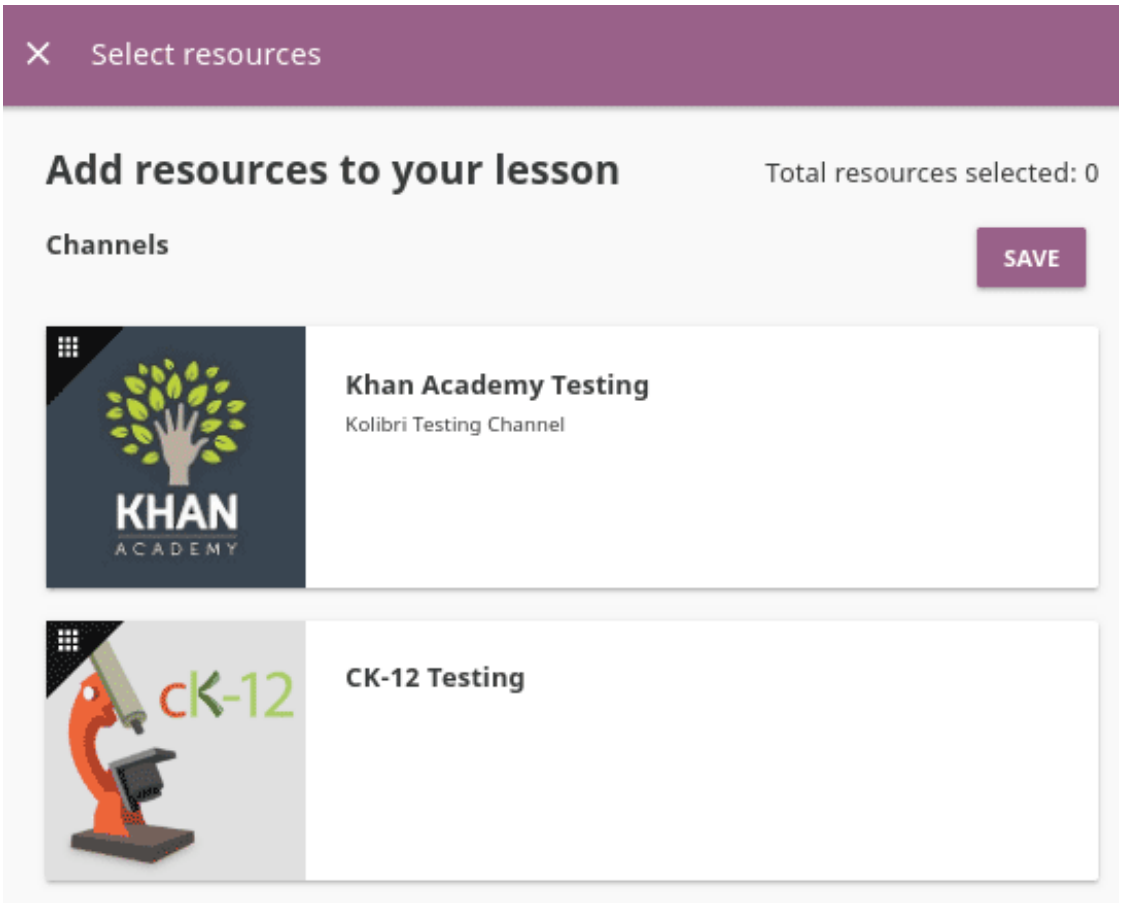
1. Click the **New lesson** button.
2. Fill in the field for the lesson title, description and set the visibility.



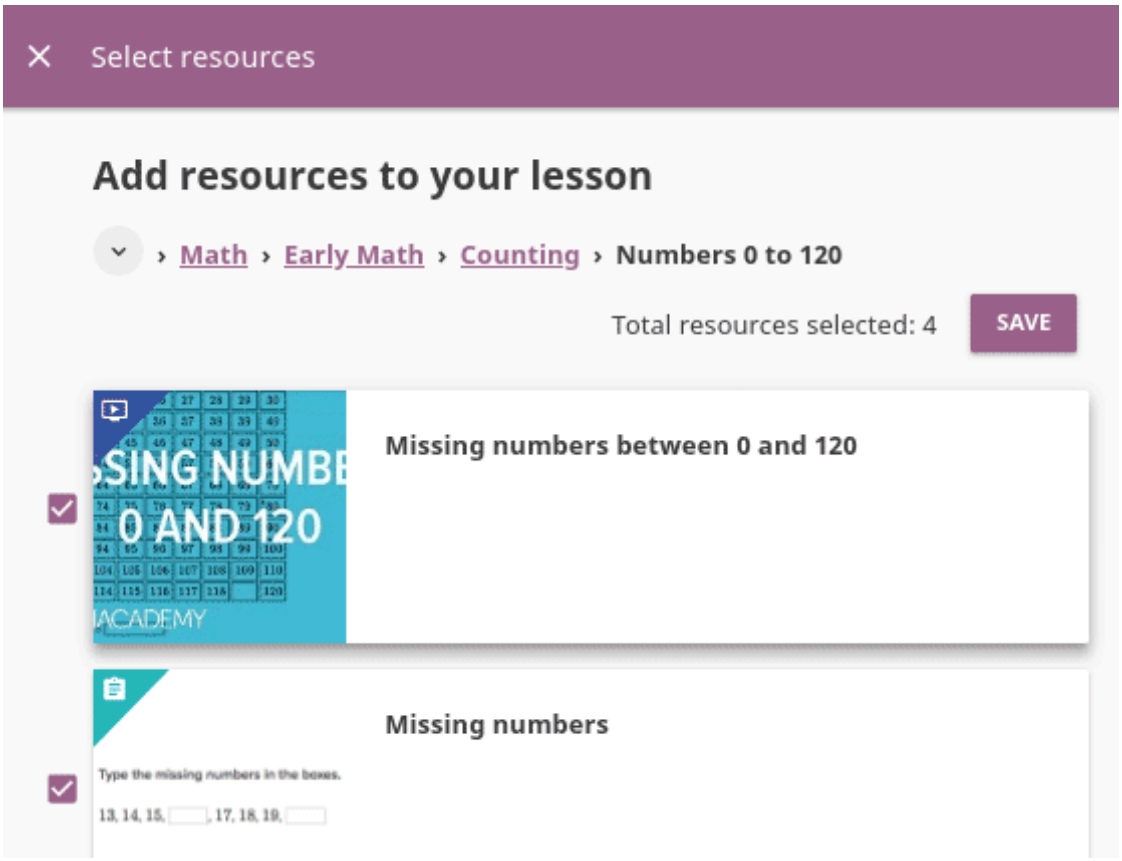
3. Click the **Continue** button. In this step, the lesson does not have any learning resources yet, but you can see and edit some options.



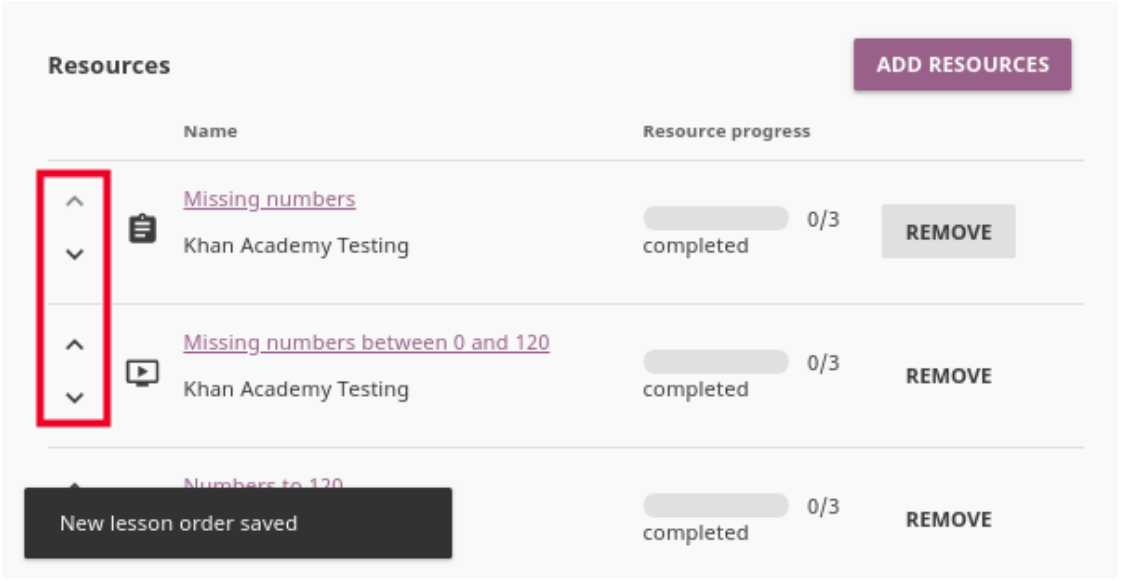
4. Click the **Add resources** button, and select the content channel from which you wish to select resources for the lesson.



5. Keep navigating the topic tree of the selected content channel until you arrive to single content items. Use the checkboxes to select the resources you want to include in the lesson.



6. Click **Save** to confirm the selection and finish.
7. Use the and buttons to reorder the resources in the lesson, and click the **Remove** button to delete them. You will see a confirmation notification at the bottom.

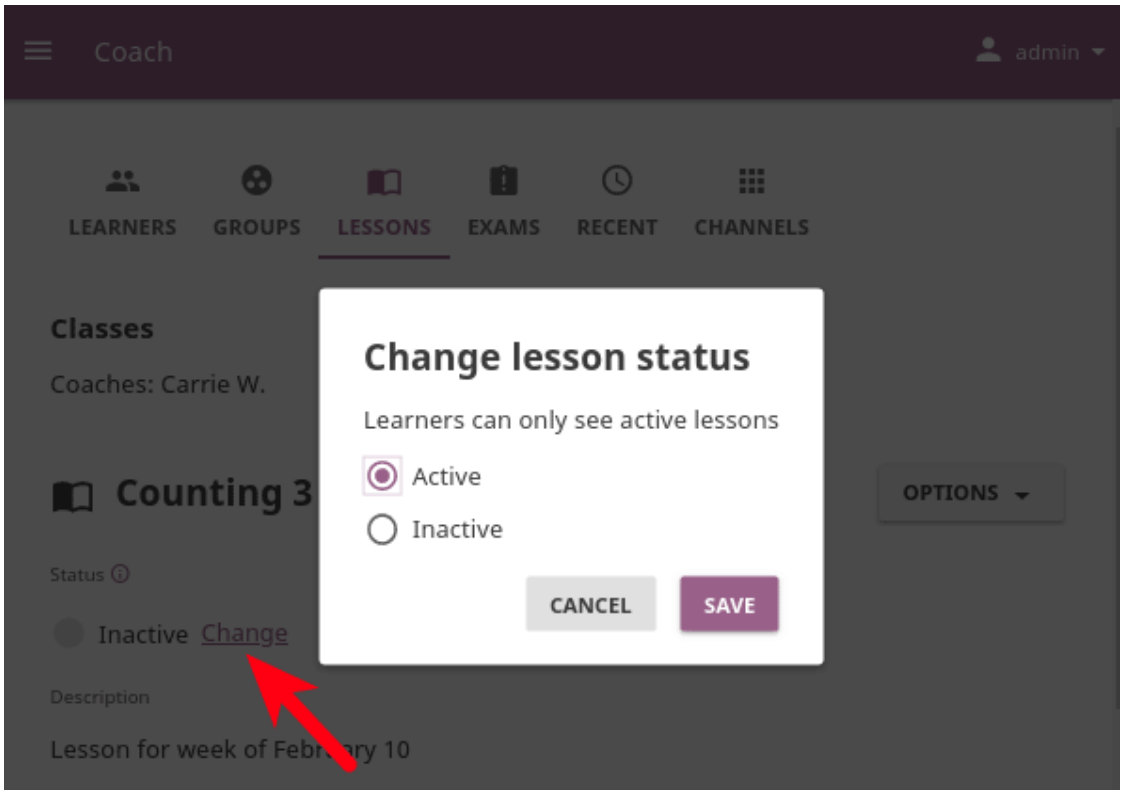


8. To add more resources to the same lesson and keep editing if needed, follow the steps 4 to 7 again.

Change Lesson Status

A newly created lesson is *Inactive* by default, meaning that learners will not see it in their **Learn** view. To change the lesson status, follow these steps.

1. Click the **Change** link under the *Status* heading.



2. Select **Active** or **Inactive**.
3. Click **Save** to confirm, or **Cancel** to exit without change.

Change Lesson Visibility

You can change the visibility of the lesson that you set when you initially created it. To reassign the lesson to a different group, or entire class, follow these steps.

1. Select the desired lesson from the list in the **Lessons** tab.
2. Click the **Options** button, and select **Edit details**.
3. Select **Entire class** or the group(s) of learners to whom you wish to assign the lesson under the *Recipients* heading.
4. Click **Save** to confirm, or **Cancel** to exit without change.

View Lesson Progress

After activating the lesson and making it available for the learners, you can view the cumulative progress for each resource in the main lesson view. Click the title of a specific resource to see the progress by all the learners to whom it was assigned.

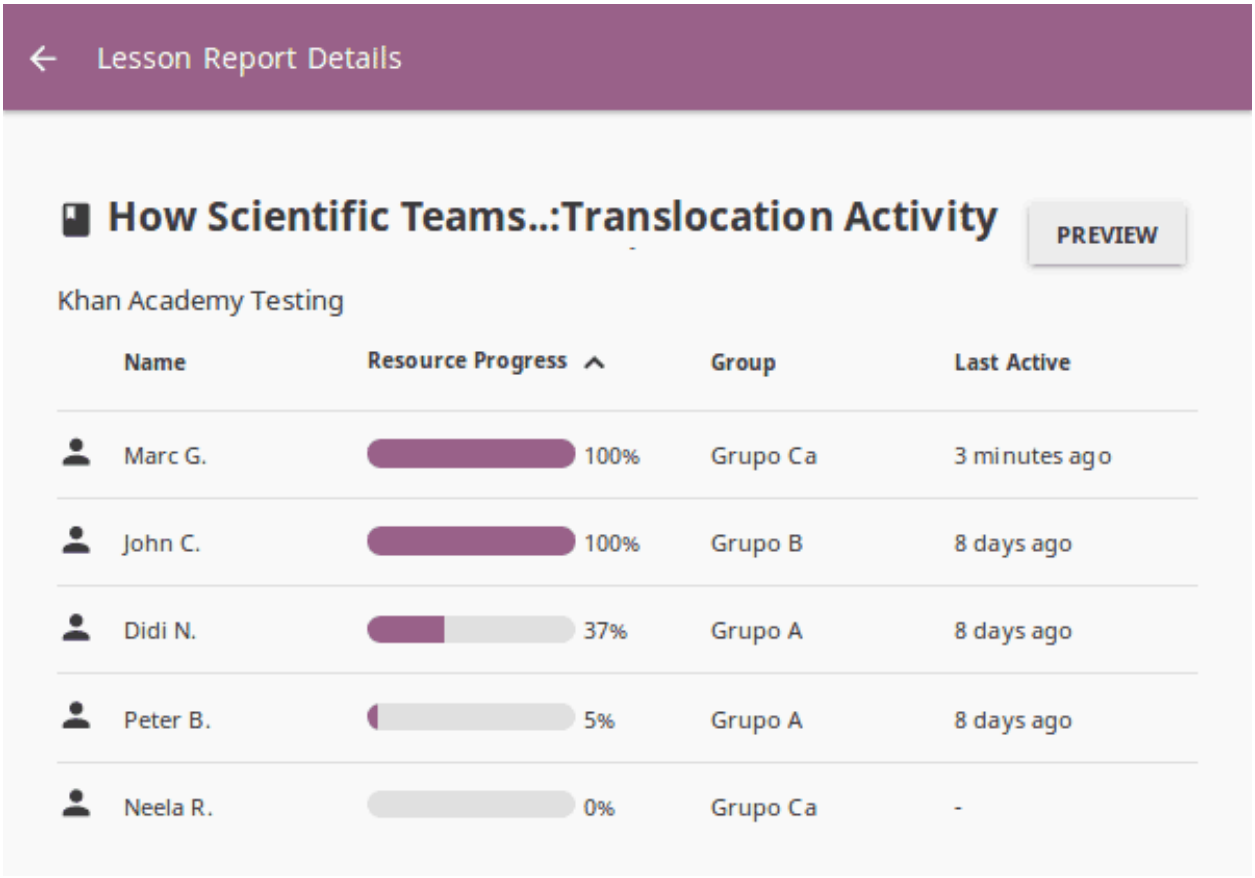


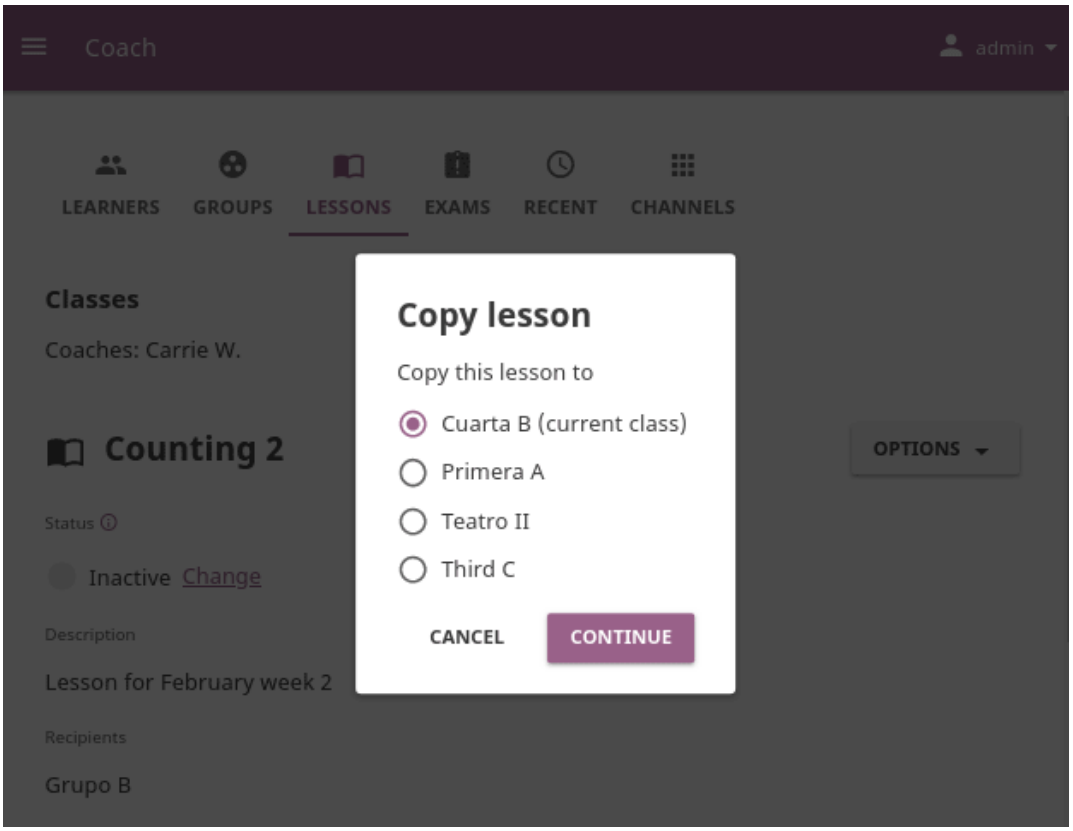
Fig. 15: Open individual lesson resource to see the progress for each learner.

Click on the column headers to order the results by name, progress, group or the time the resource was accessed.

Copy Lesson

To copy a lesson to a different group or another class of your facility, follow these steps.

1. Select the desired lesson from the list in the **Lessons** tab.
2. Click the **Options** button, and select **Copy lesson**.



3. Select the class to which you wish to copy the lesson to.
4. If the destination class has more than one group, select **Entire class** or the group(s) of learners to whom you wish to assign the lesson.
5. Click **Save** to confirm, or **Cancel** to exit without change.

If the lesson is copied to another group in the same class, it will appear in the **Lessons** tab as the *Copy of...*. Follow the steps in the next heading to rename it.

Rename Lesson

To rename a lesson, follow these steps.

1. Select the desired lesson from the list in the **Lessons** tab.
2. Click the **Options** button, and select **Edit details**.
3. Change the lesson title in the confirmation window.

4. Click **Save** to proceed, or **Cancel** to exit without renaming the lesson.

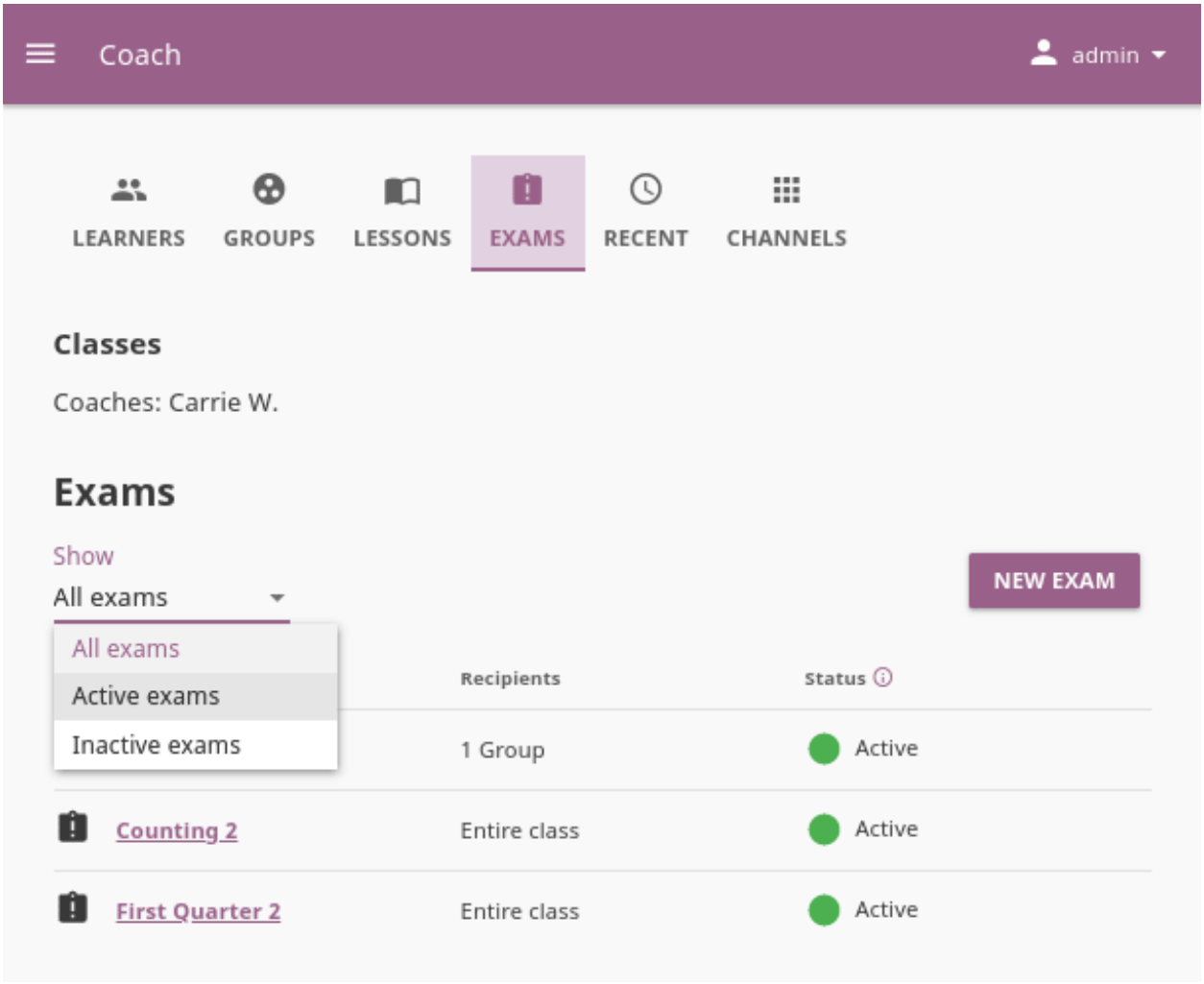
Delete Lesson

To delete a lesson, follow these steps.

1. Select the desired lesson from the list in the **Lessons** tab.
2. Click the **Options** button, and select **Delete**.
3. Click **Delete** in the confirmation window to proceed, or **Cancel** to exit without deleting the lesson.

3.4.4 Manage Exams

You can view, create and delete exams, as well as assign them to learners, using the **Exams** tab in your **Coach** dashboard (icon). Default view displays the list of all exams in a selected class, with indicators of their visibility status and groups they are assigned to.



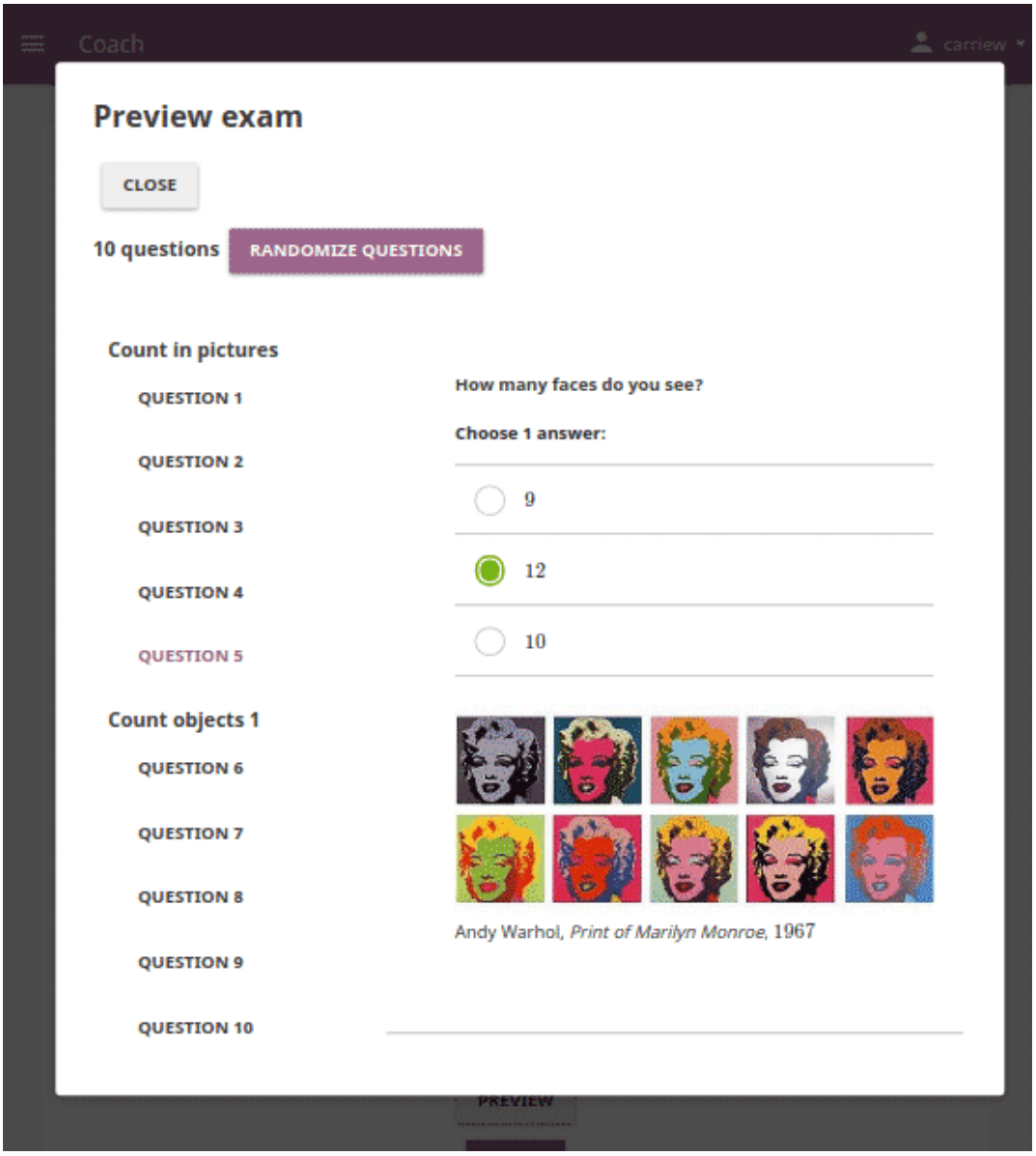
Note: To manage **Exams** in Kolibri classes and groups you must sign in as **Coach** or **Admin**.

Create New Exam

To create a new exam, follow these steps.

1. Click the **New exam** button.
2. Fill in the field for the exam title in the *Create a new exam* view.
3. Fill in the field for number of questions you want the exam to contain.
4. Navigate through the topic tree and activate checkboxes of those exercises you want to include in the exam.

5. Click **Preview** button to view the result before finishing.



- Click **Randomize questions** button to present them in the different order from those in the topic origin.
- Click **Close** button to return to the exam home page.

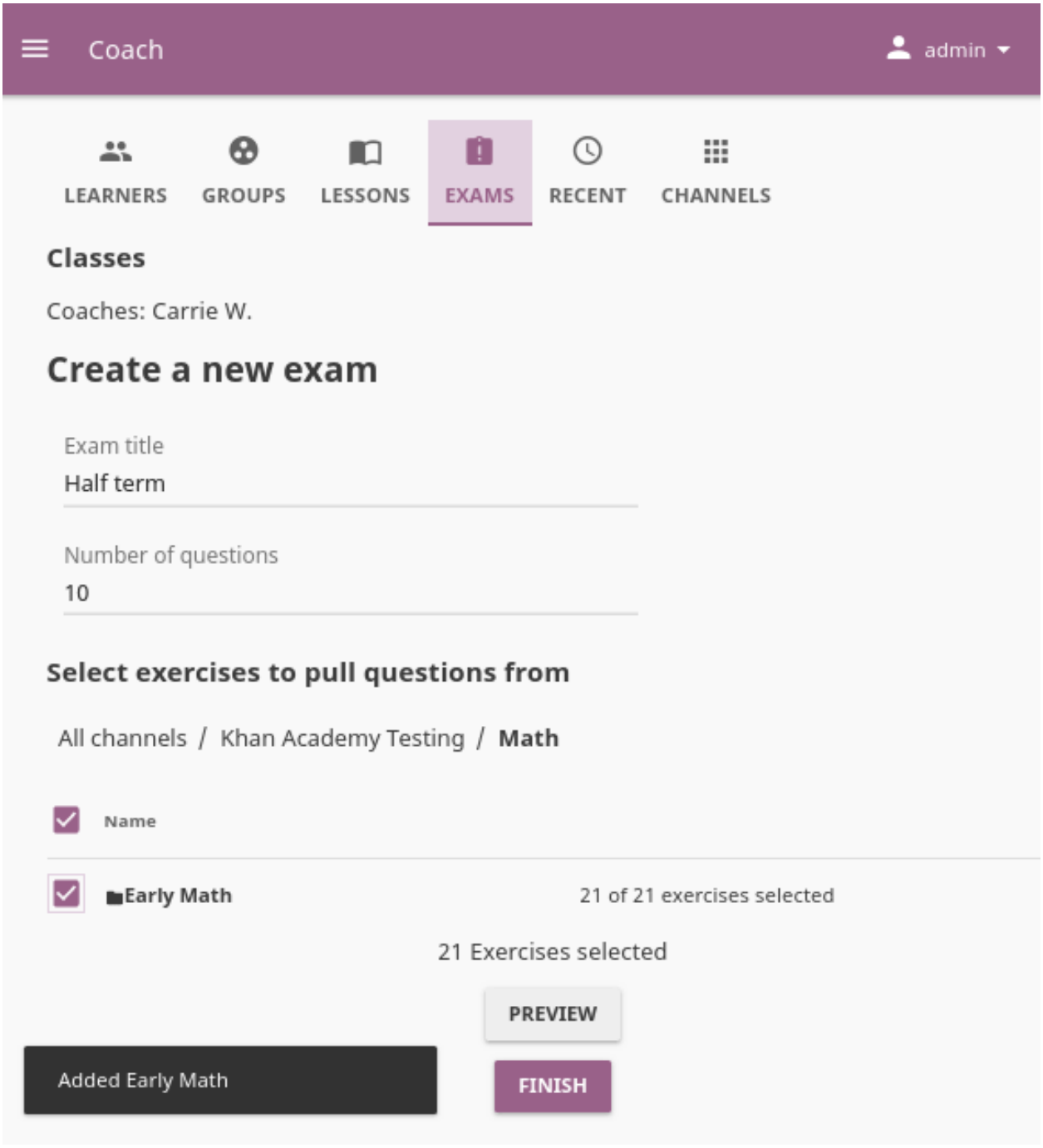


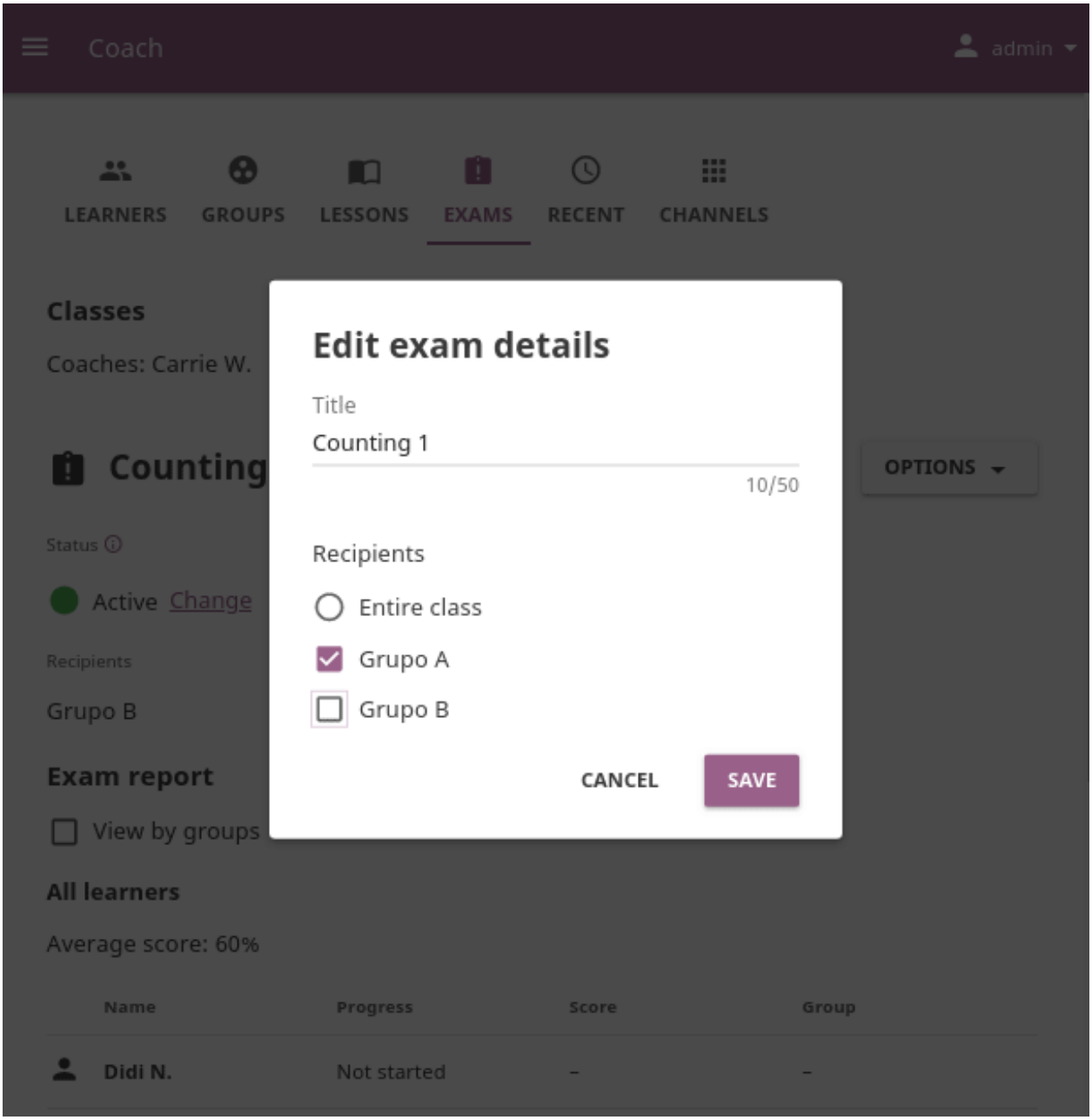
Fig. 16: As you keep adding the exercises you will see confirmation messages at the bottom.

8. Click **Finish** button to save the result.

Change Exam Visibility

Newly created exam will be visible to entire class by default. To change exam *Recipients* (a select group of learners instead of the whole class), follow these steps.

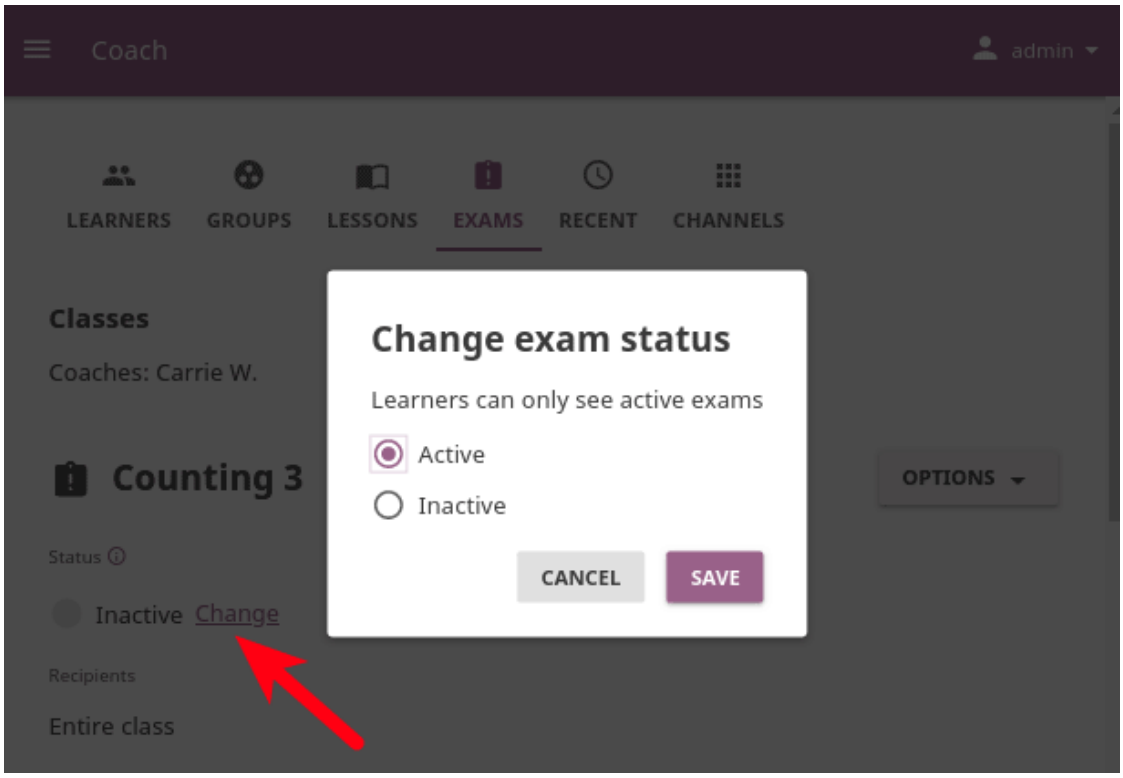
1. Select the exam by clicking its title from the exam list.
2. Click the **Options** button and select the **Edit details** option.
3. Select the group(s) of learners to whom you wish to assign the exam under the *Recipients* heading.
4. Click **Save** to confirm, or **Cancel** to exit without change.



Change Exam Status

Once you set the visibility of exam to the chosen group(s) of learners, you need to **Activate** it in order for it to appear in the **Learn** view of the learners to whom you assigned it.

1. Select the desired exam from the list in the **Exams** tab.
2. Click the **Change** link under the *Status* heading.

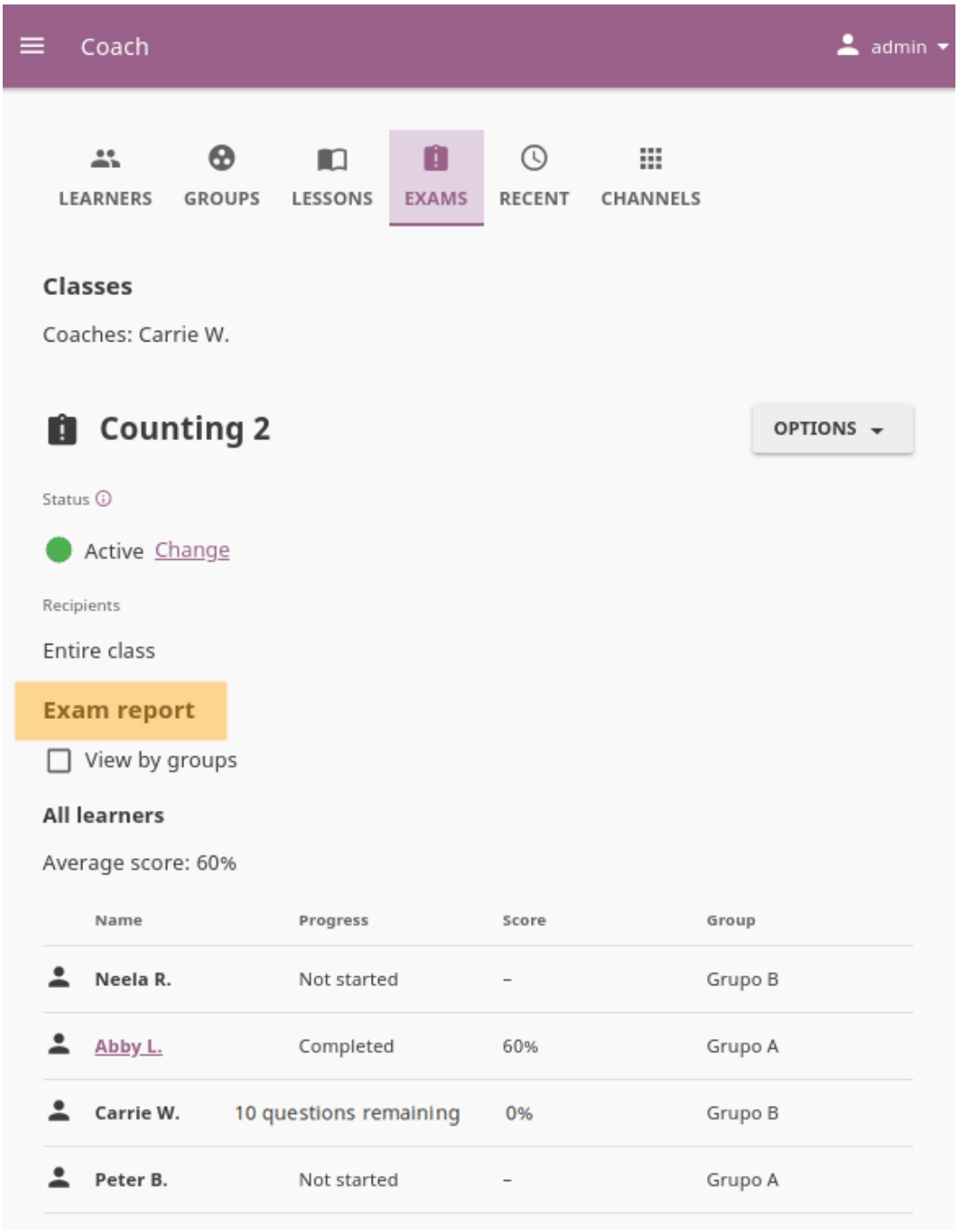


3. Select **Active** at the start of the exam period. When the exam period concludes, select the **Inactive** option.
4. Click **Save** to confirm, or **Cancel** to exit without change.

View Exam Report

To view the report and scores for learners who have taken the exam, follow these steps.

1. Select the desired exam from the list in the **Exams** tab.
2. Scroll down to the **Exam report** heading.

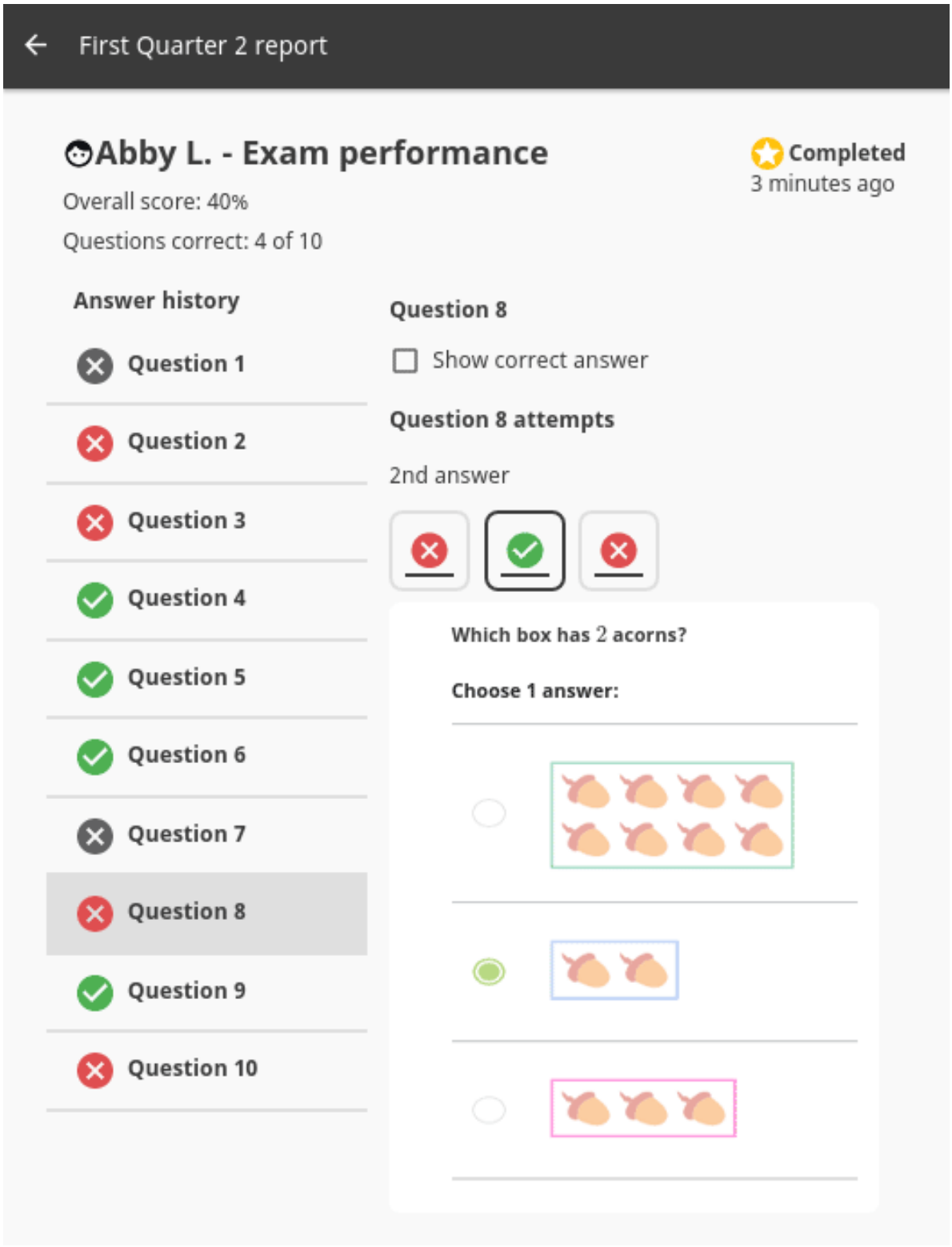


This view presents the list of all the learners who had access to the exam, with the respective progress and scores. Click the name of the learner to view the detailed exam report with a preview of the results for each question.

3. Click each of the questions to preview it. This can help understand which questions learners had difficulties answering correctly and how many attempts they used.

- yellow star icon indicates a **completed** exam
- blue clock icon indicates the exam is **in progress**, not submitted yet
- green check mark icon indicates the **correct** answer

- red X mark icon indicates the **incorrect** answer
- gray X mark icon indicates an **unanswered** question



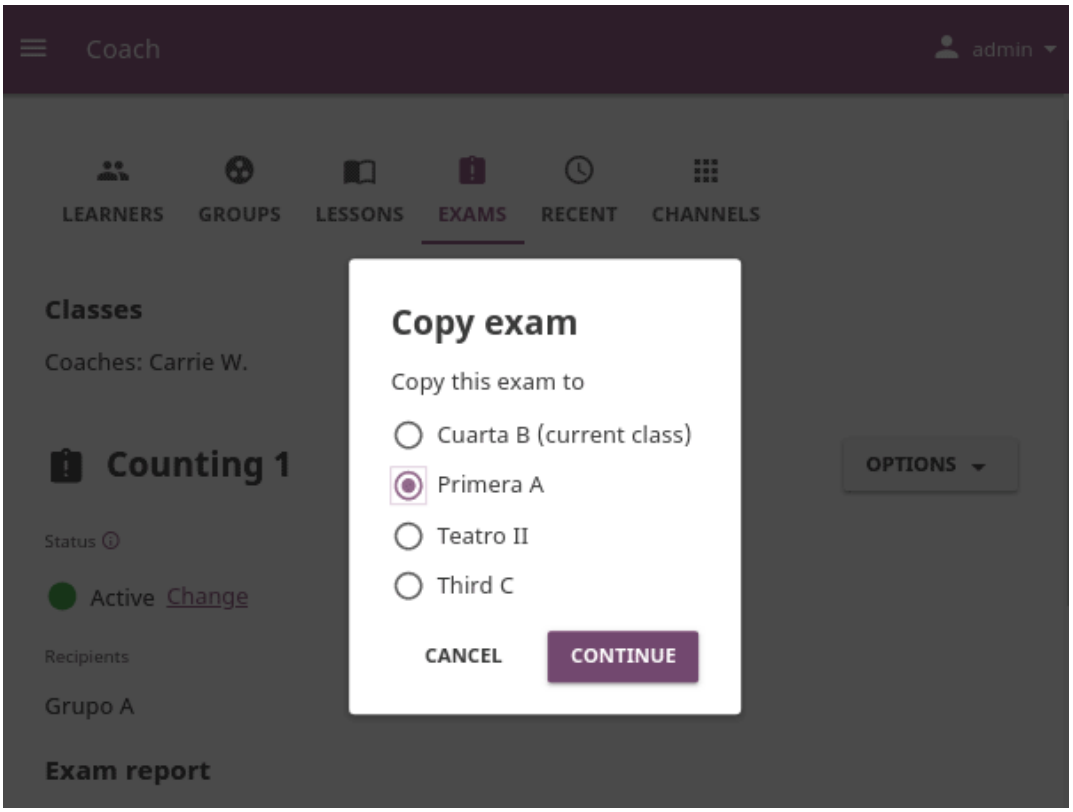
- Click on the attempt icons to see the answers for each one. In the screenshot above learner **Abby L.** had 3

attempts on *Question 8*: The first one was incorrect, the second one (selected) was correct, but the third and finally submitted one was incorrect.

Copy Exam

To copy an exam to a different group or another class, follow these steps.

1. Select the desired exam from the list in the **Exams** tab.
2. Click the **Options** button, and select **Copy to**.



3. Select the class to which you wish to copy the exam to and click **Continue**.
4. If the destination class has more than one group, select **Entire class** or the group(s) of learners to whom you wish to assign the lesson.
5. Click **Copy** to confirm, or **Cancel** to exit without change.

If the exam is copied to another group in the same class, it will appear in the **Exams** tab as the *Copy of...* Follow the steps in the next heading to rename it.

Rename Exam

To rename exam, follow these steps.

1. Click **Options** for the desired exam and select **Edit details** option.
2. Change the exam title in the confirmation window.
3. Click **Save** button to proceed, or **Cancel** to exit without renaming the exam.

Delete Exam

To delete exam, follow these steps.

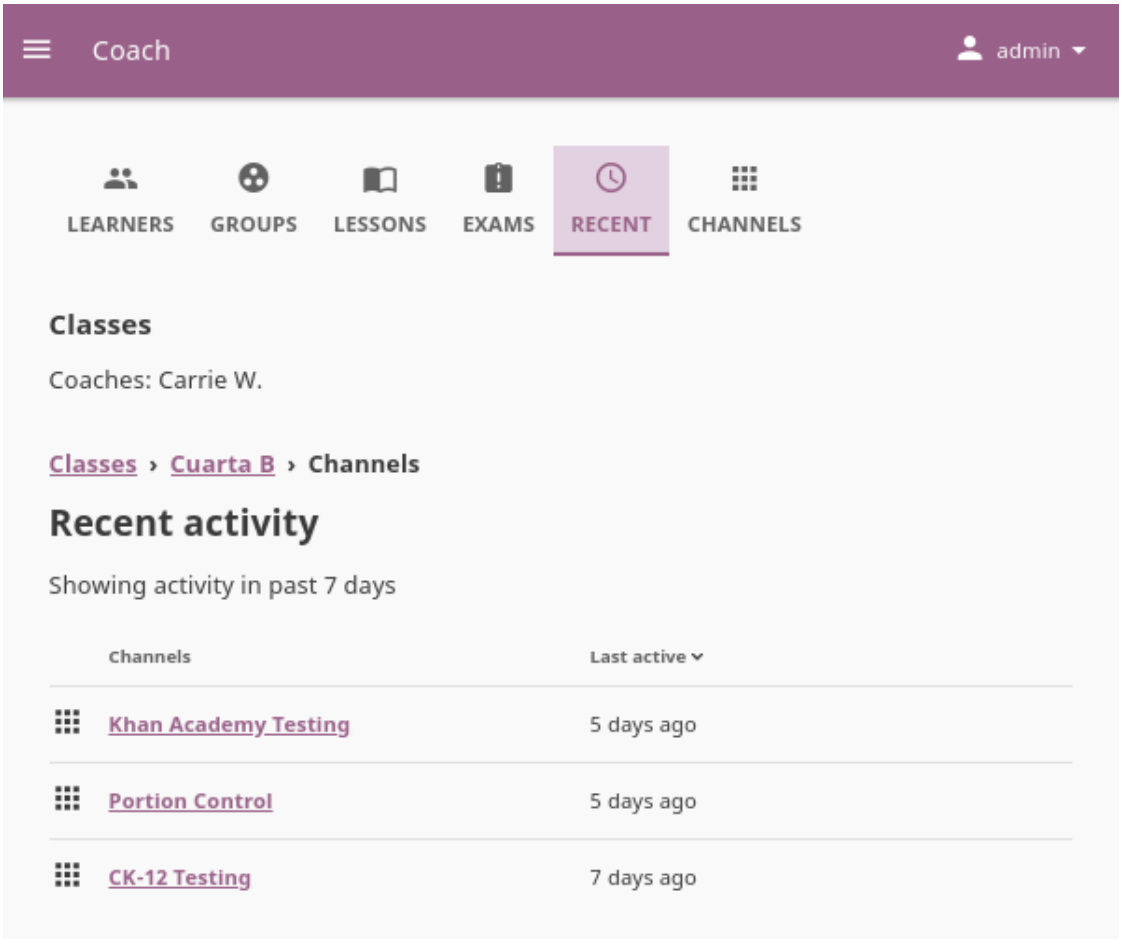
1. Click **Options** for the desired exam and select **Delete** option.
2. Click **Delete** button in the confirmation window to proceed, or **Cancel** to exit without deleting the exam.

Warning: All data from the exam you are deleting will be lost.

3.4.5 View Class Activity

Recent Class Activity

Use the **Recent** tab (icon) to access a report of channels and items (exercises and resources - videos, reading material, etc.) accessed during the last 7 days by learners of the selected class.



If the enrolled learners have access to more than one channel, you will see the list of channels firstly. From there, you can navigate by topics and subtopics until you arrive to a specific item. In the item's view, you can review the progress of each learner in the class that accessed the item.

Class Activity by Channels

Use this tab (icon) to access the full report of activity progress for the selected class. You can navigate channels by topics and subtopics until you see the progress of each class learner for a specific item.

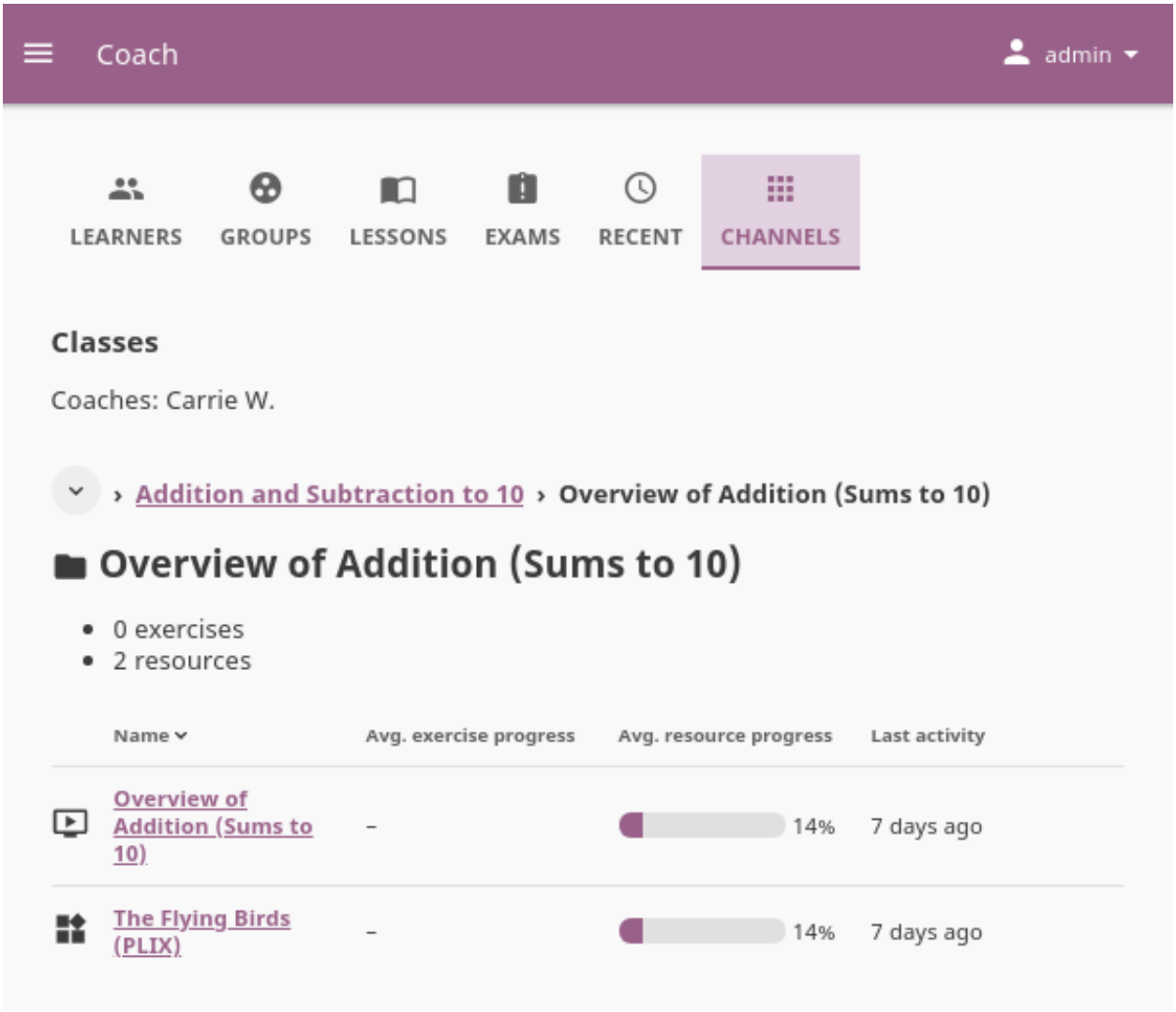


Fig. 17: Use the channel view to see the average progress for exercises and resources for all the learners in the class.

When you navigate to the last level in the topic tree, you can see the average progress of all class learners for each exercise or resource (video, document, HTML5 activity) in that particular topic.

3.4.6 Coach Support Resources

Kolibri Studio supports the option to set visibility for any resource added to content channels as a **Coach resource**. When content curators set the visibility this way, the resource in Kolibri will not be visible to learners, but only to admins, facility coaches, or other users assigned to coach classes. These materials can be lesson plans, professional development readings, training materials, etc. only viewable by coaches and not learners.

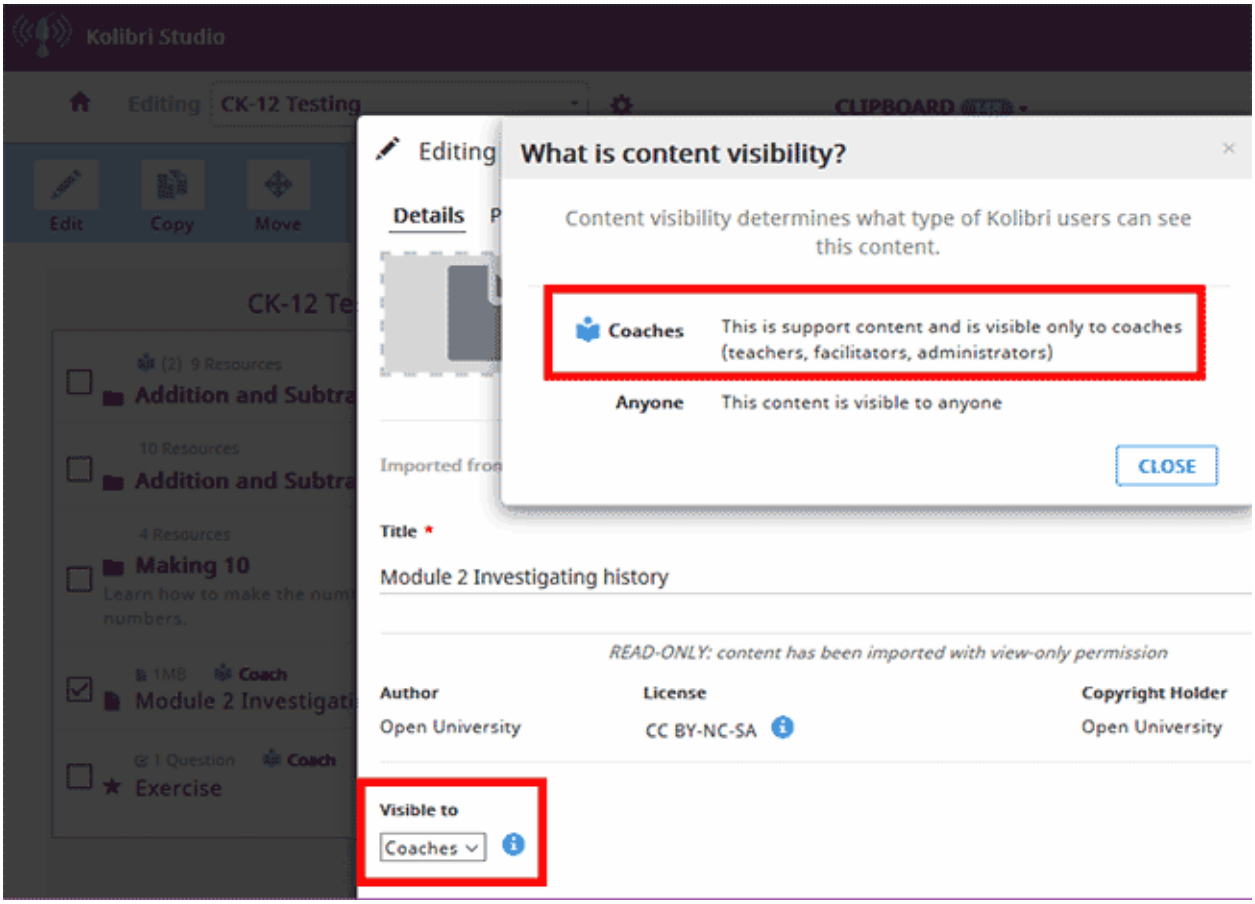


Fig. 18: Setting the visibiility of content in Kolibri Studio.

Coach resources and content channels that contain them are marked with the icon in Kolibri.

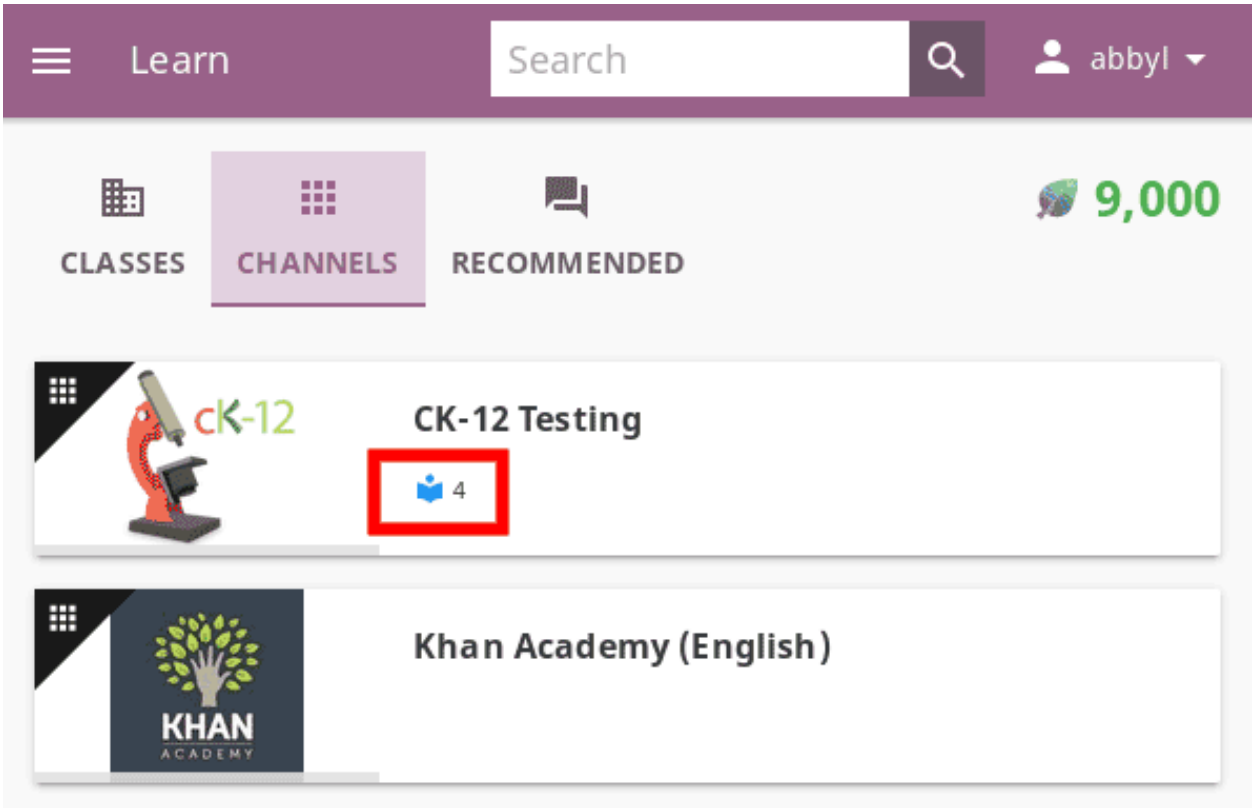


Fig. 19: Content channel with 4 support resources for coaches in Kolibri.

3.5 Learn with Kolibri

3.5.1 Access Kolibri

Note:

- If you are using Kolibri in your school, education center or facility, your coach or administrator will provide the instructions how to open the sign-in page, and username and password if necessary.
- If you are using Kolibri on your own, outside an education center or facility, follow the instructions how to *Access Kolibri* according to your operating system.

To sign in to **Kolibri** and start learning, follow these steps:

1. Type your username and password (may be optional).
2. Click the **SIGN IN** button.

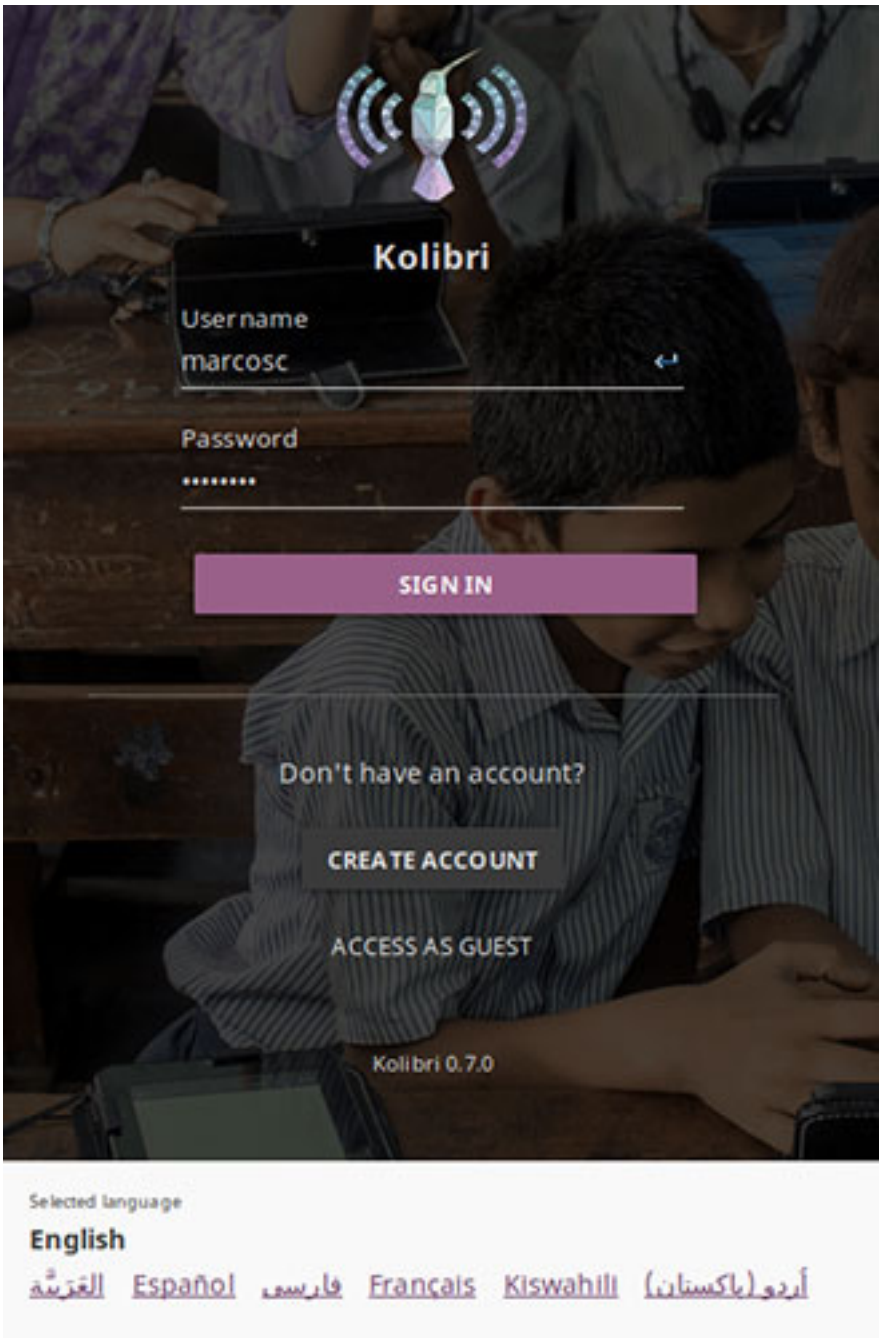


Fig. 20: Main sign in page.

Warning: If you start browsing Kolibri as a guest, you need either to select **Sign in** option from the **Guest** menu in the upper right corner, or from the sidebar menu (left or bottom) to open the sign-in page.

Once you have logged in into Kolibri, you can see and edit your user data from the **Profile** option in the main sidebar menu (below **Learn**).

To sign out from Kolibri you can either:

- Click the user icon in the upper right corner and select **Sign out** option, **OR**
- Select **Sign out** option in the main sidebar menu.

3.5.2 Learn with Kolibri

Classes

Each time you login into **Kolibri**, the first thing you will see is the **Learn** page with the list of all the classes you are enrolled to.

Select one of your classes to access *Lessons* and *Exams* teachers or coaches prepared for your class.

Channels

Use this tab (icon) to navigate through the complete set of learning topics and materials available in Kolibri. You can browse it as you wish, or according to indications from your teachers and coaches.

Depending on how your school and teachers or coaches decided to organize the content, you may have one or more channels available here. Follow the indications by your teachers or coaches on how to use the content from each available channel.

Recommended

In this tab (icon) you can see various sections:

- **Most popular** displays the most frequently used materials in your school or facility.
- **Next steps** displays suggestions according to topics and materials you previously visited.
- **Resume** displays activities that you started but haven't finished yet.

These learning topics and materials are either related to what you were doing the last time you used Kolibri. or recommended by your teachers and coaches.

Note: **Next steps** and **Resume** are not visible if you are browsing as a guest.

The number of displayed content items in each row will depend on the width of your display, and you can browse with the and icons at the beginning and the end of the section rows.

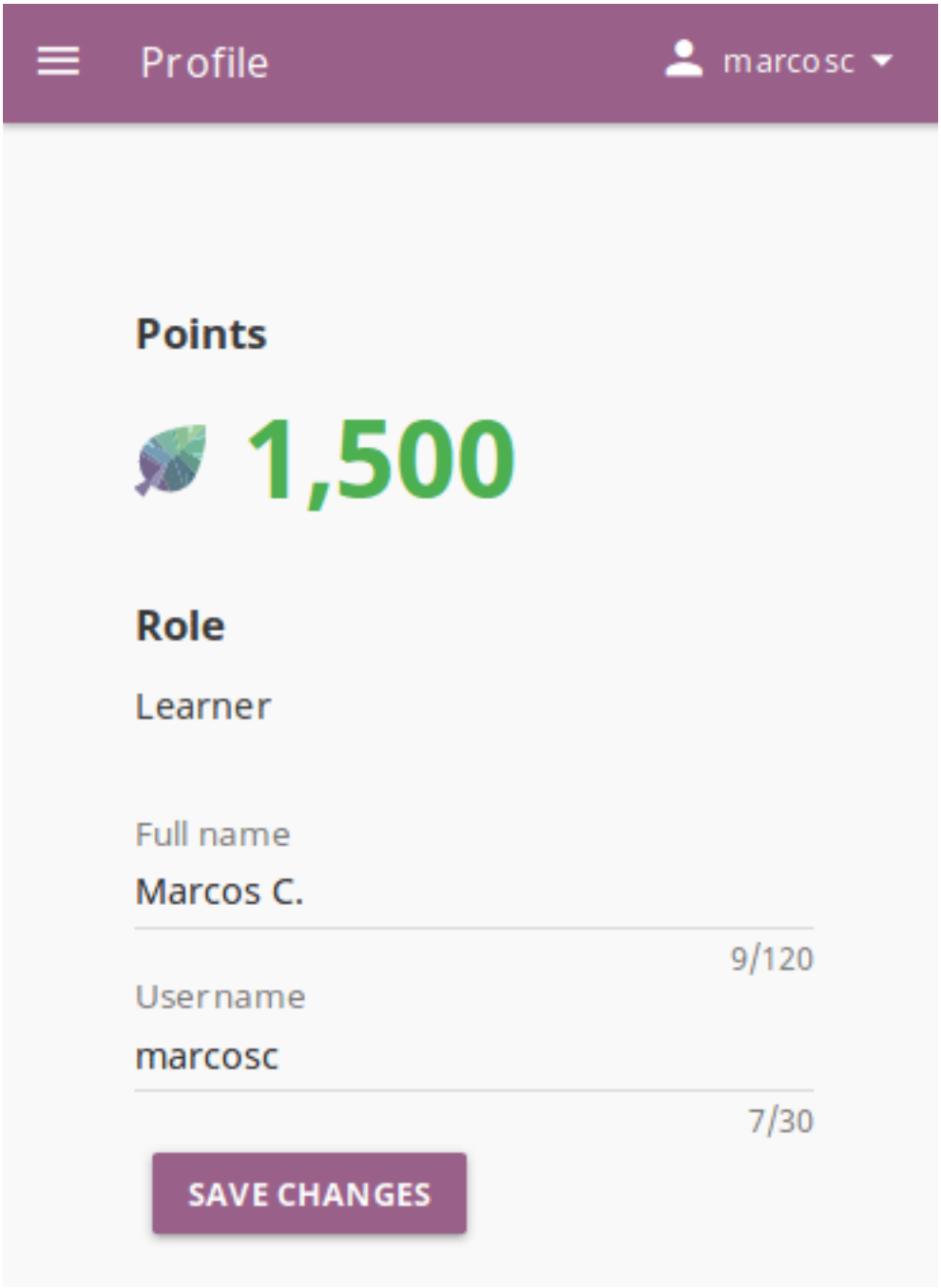


Fig. 23: View and edit your user profile.

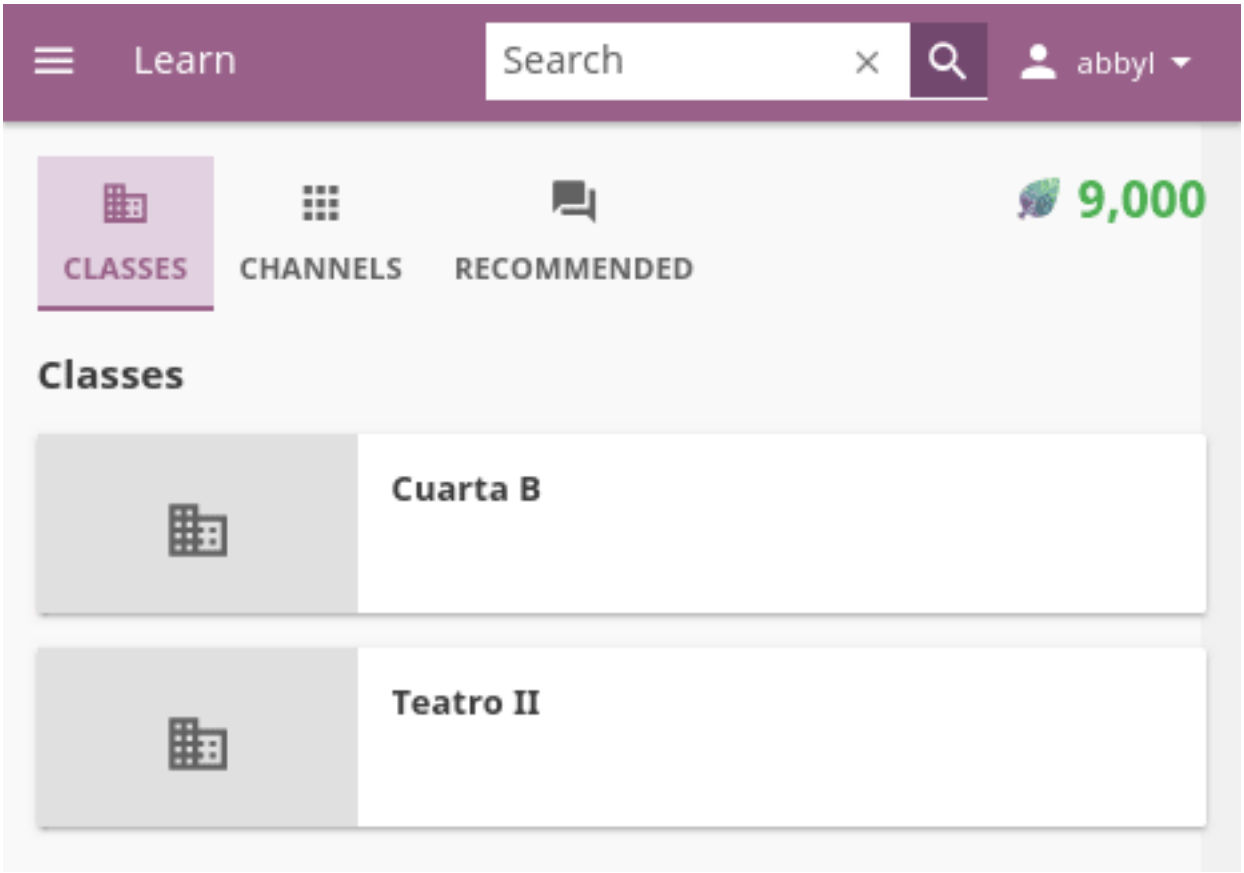


Fig. 24: Learn start page with all your classes.

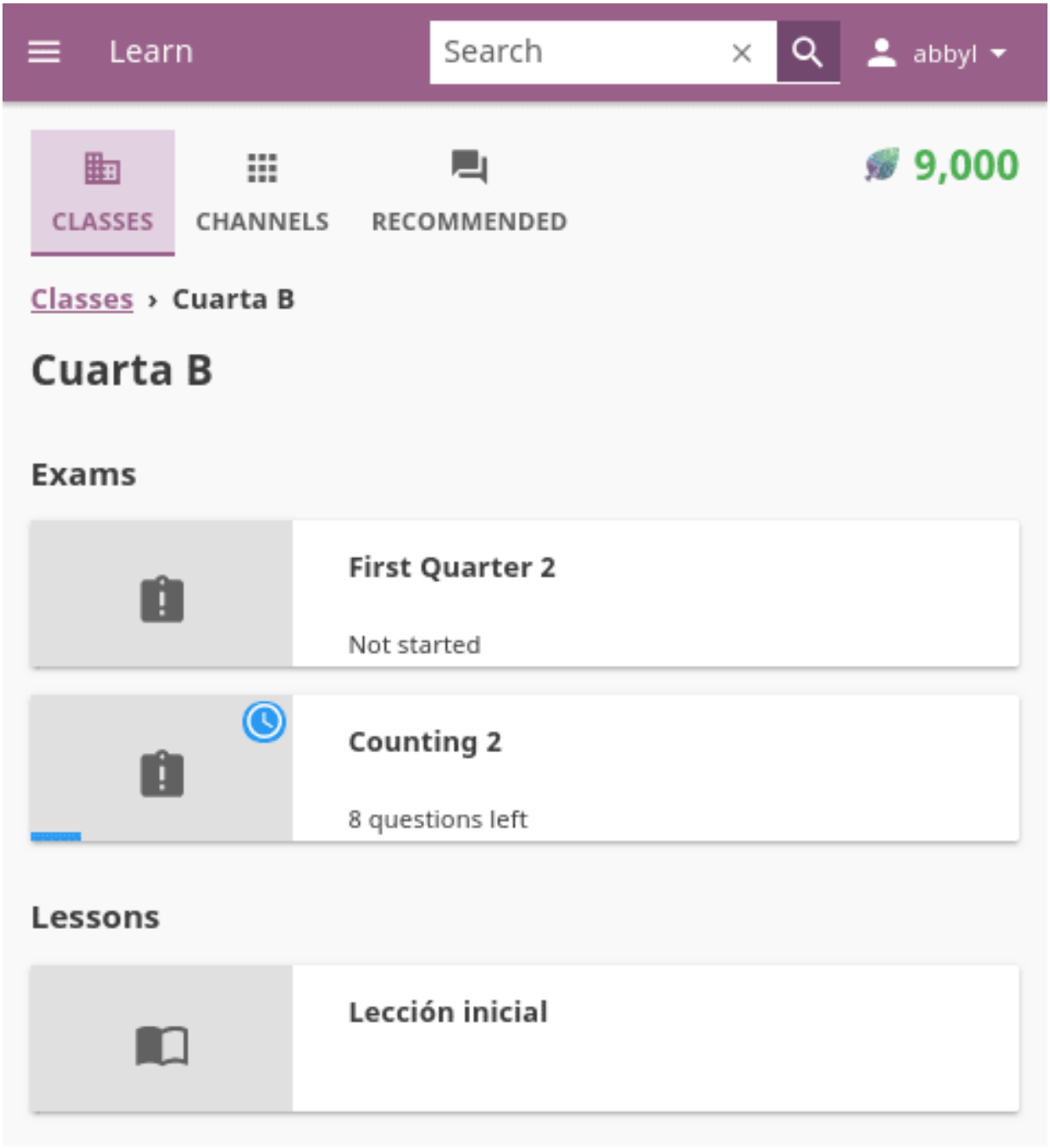


Fig. 25: You can see all your lessons and exams in the Class tab.

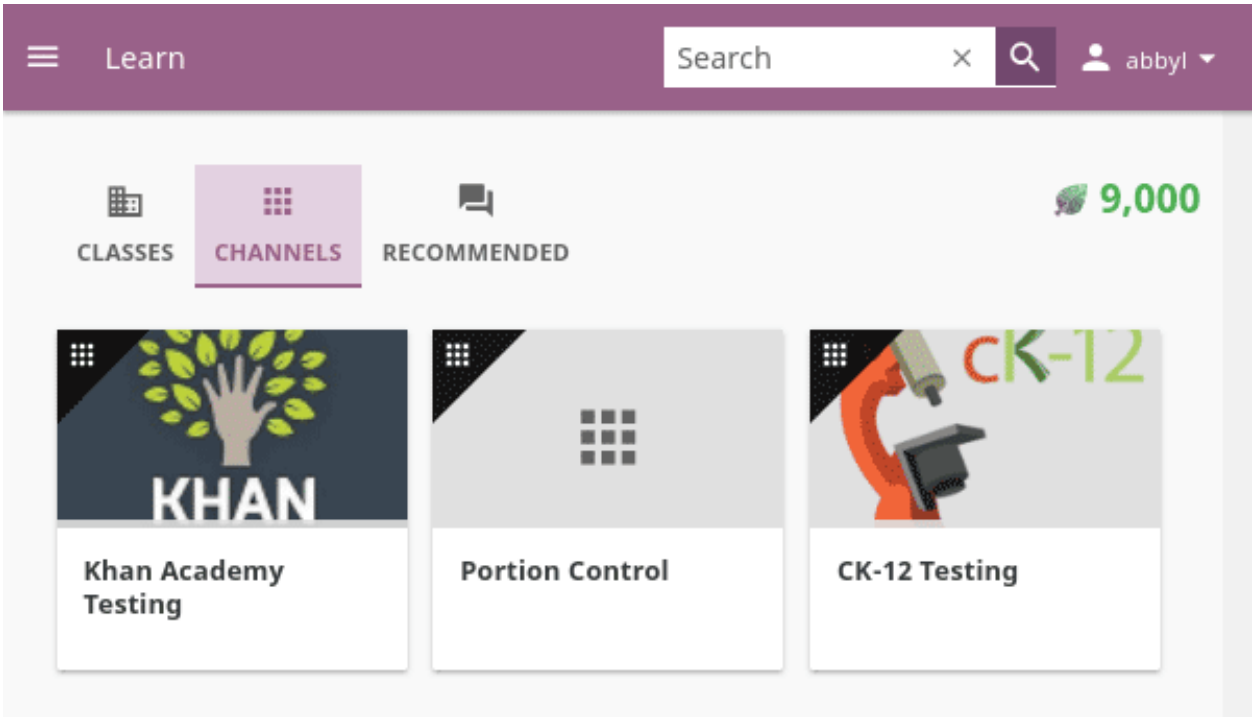


Fig. 26: Content in Kolibri is grouped in channels.

Navigate Kolibri topics with breadcrumb links

When you are browsing a topic in Kolibri, the **Breadcrumb** links indicate previously visited, more general topics. Current topic is at the last position, and you can click any of the previous links in the breadcrumb to go back to a specific broader topic.

If the full length of the breadcrumbs becomes too wide for the width of your display, the more general topics will be hidden. Click the leftmost down arrow icon to access them.

Search

If you are looking for a specific subject, topic, or term, use the **Search** feature:

1. Type the word or combination of words you are looking for in the search field located in the top bar.
2. Press **Enter** or click the button to display the results.

Some Kolibri resources may be duplicated in different topics and/or channels. Search results will indicate when a resource is duplicated, and you can click on the `...locations` link to discover the details for each location.

Content types

You may see different types of content available in Kolibri channels, and you can easily distinguish them by their icons:

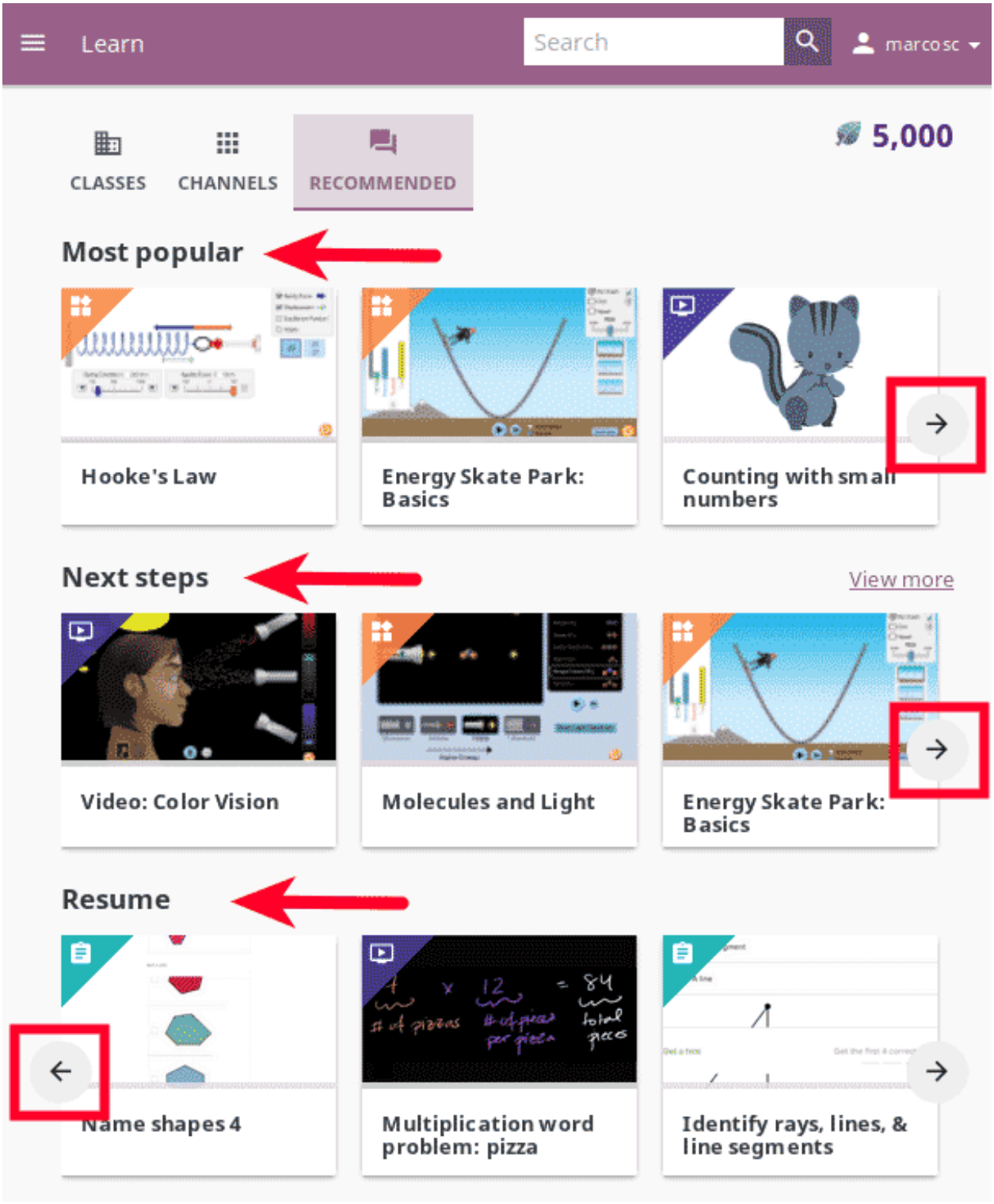


Fig. 27: Learn page gives you access to all Kolibri learning content and activities.

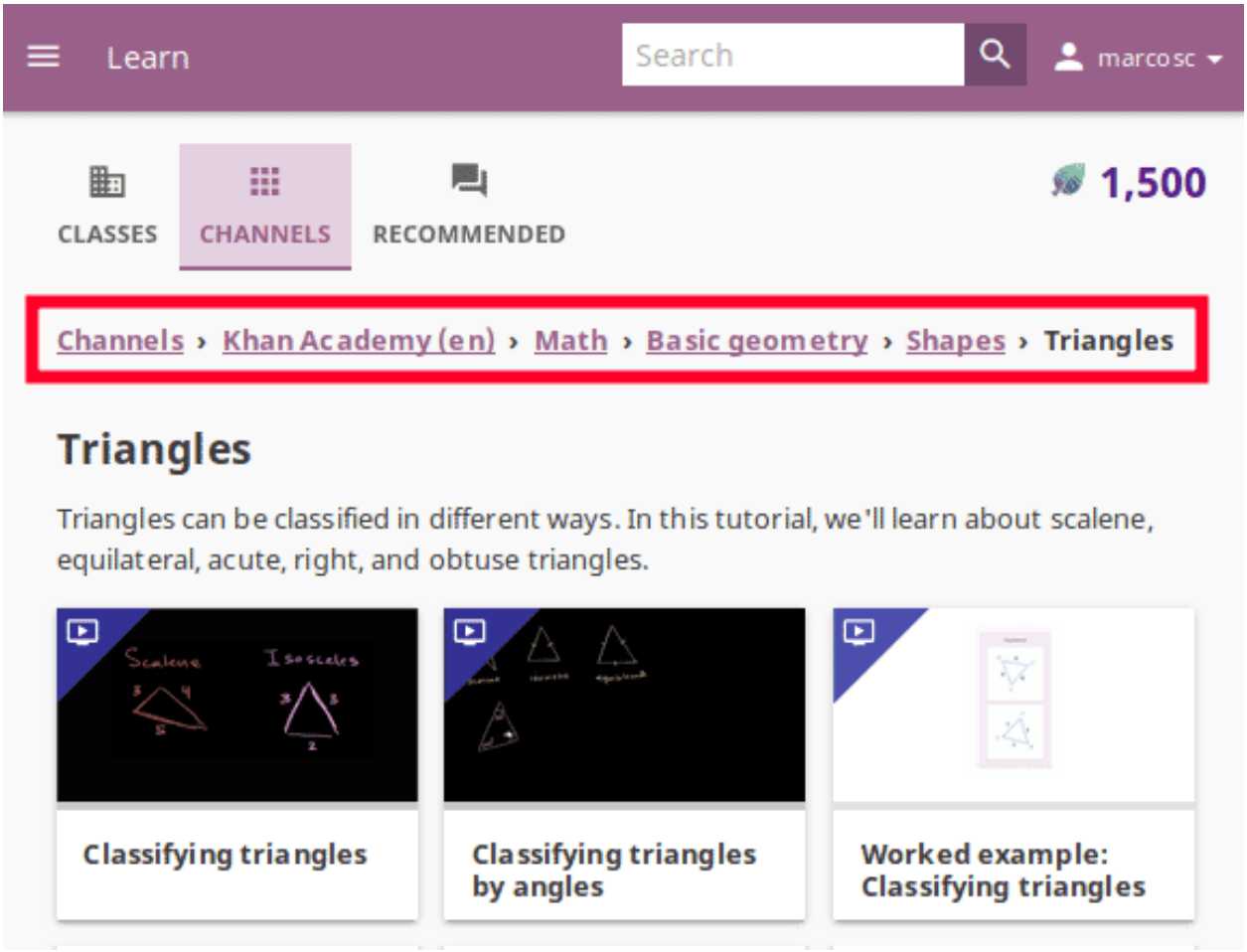
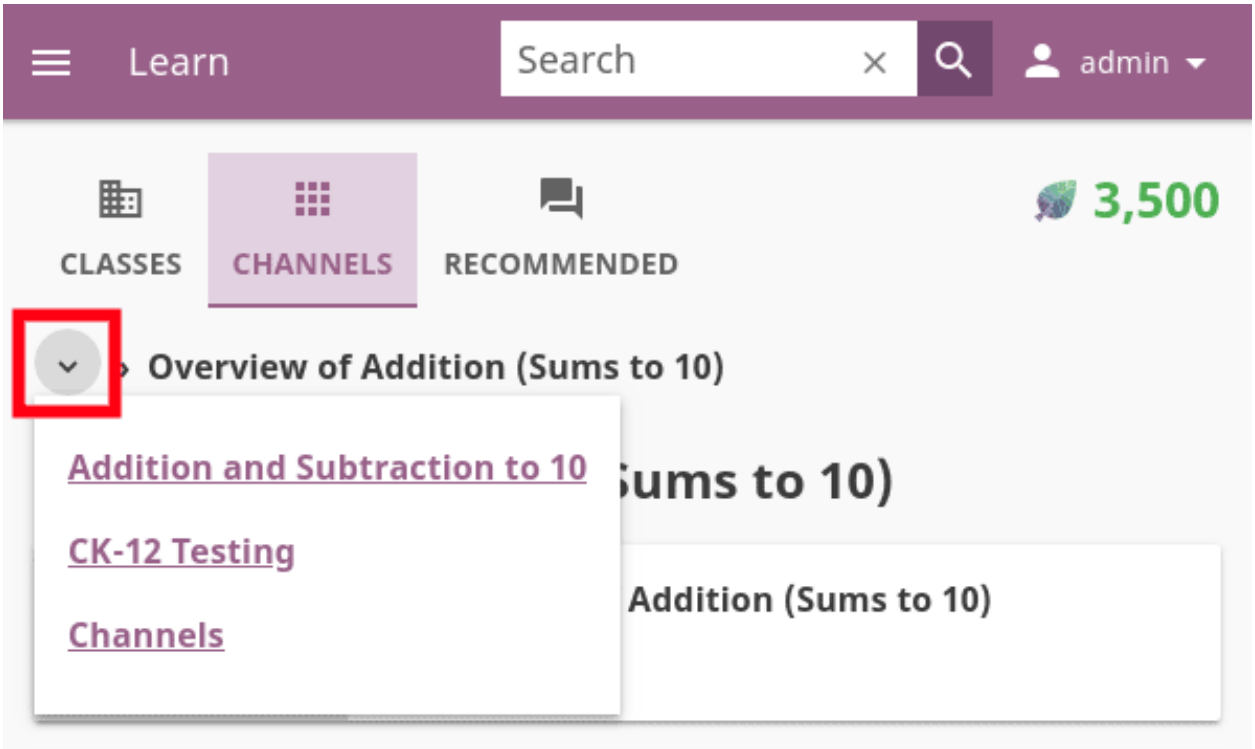


Fig. 28: Use breadcrumbs links to navigate back through Kolibri topics.



- Videos -
- Exercises -
- Documents -
- Interactive HTML Apps -
- Topics -

When you start doing an exercise, viewing a video, or reading a document, it will be marked with the icon. Once you finish viewing a video or complete the exercise, they will be marked with the icon.

Exercises

Kolibri **Exercises** can require you to do different things: fill in a missing number, write a formula, choose one of the available options, etc. Each correct answer gets you a check mark, and majority of exercises require 5 correct answers in a row to be completed. Some exercises can offer one or more hints, to help you solve the problem.

Independent of the required action (writing an answer yourself or choosing one of the options), these are the steps to follow.

1. **Read the question carefully**.

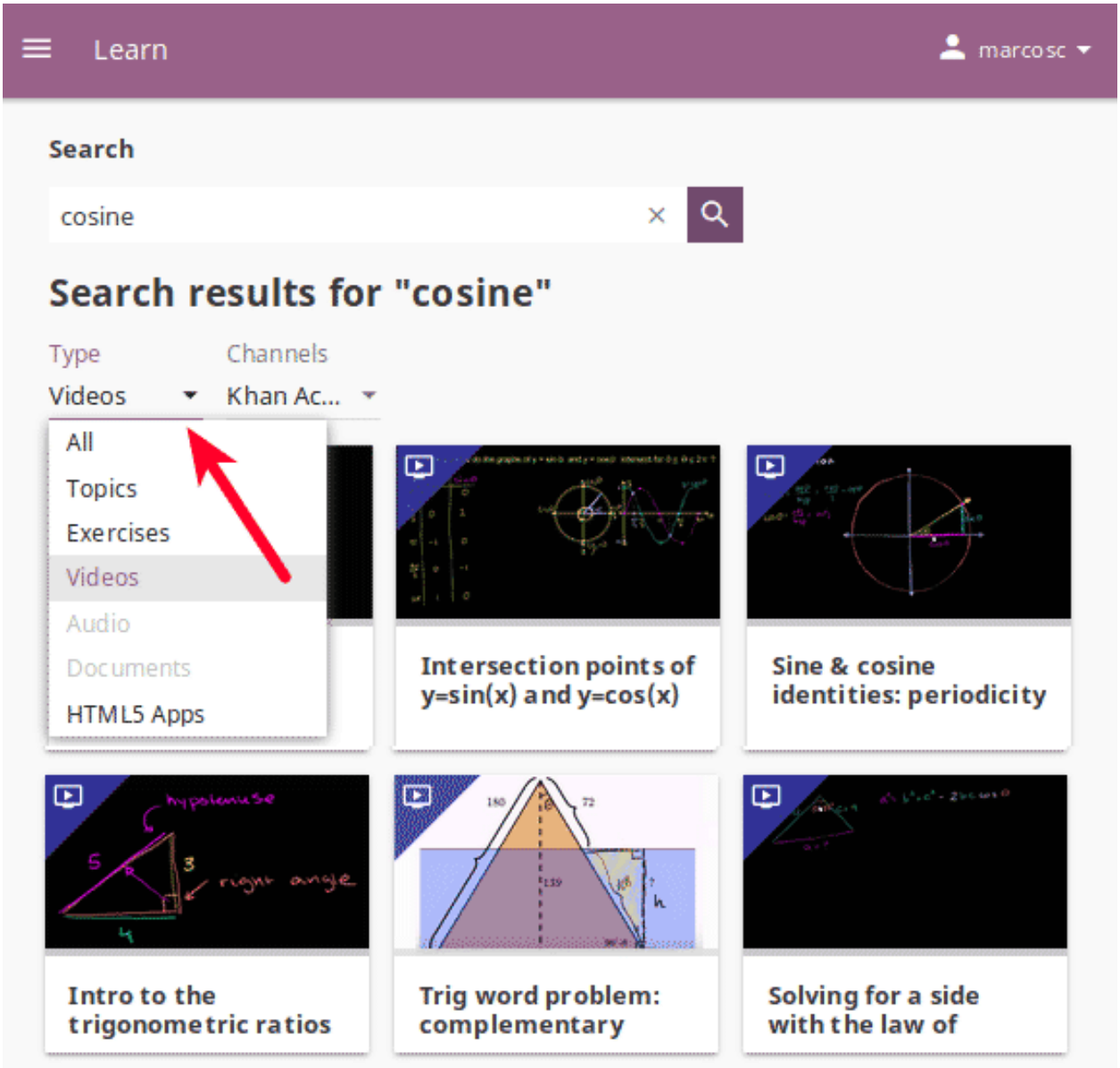


Fig. 29: Filter the search results by channel or type of content.

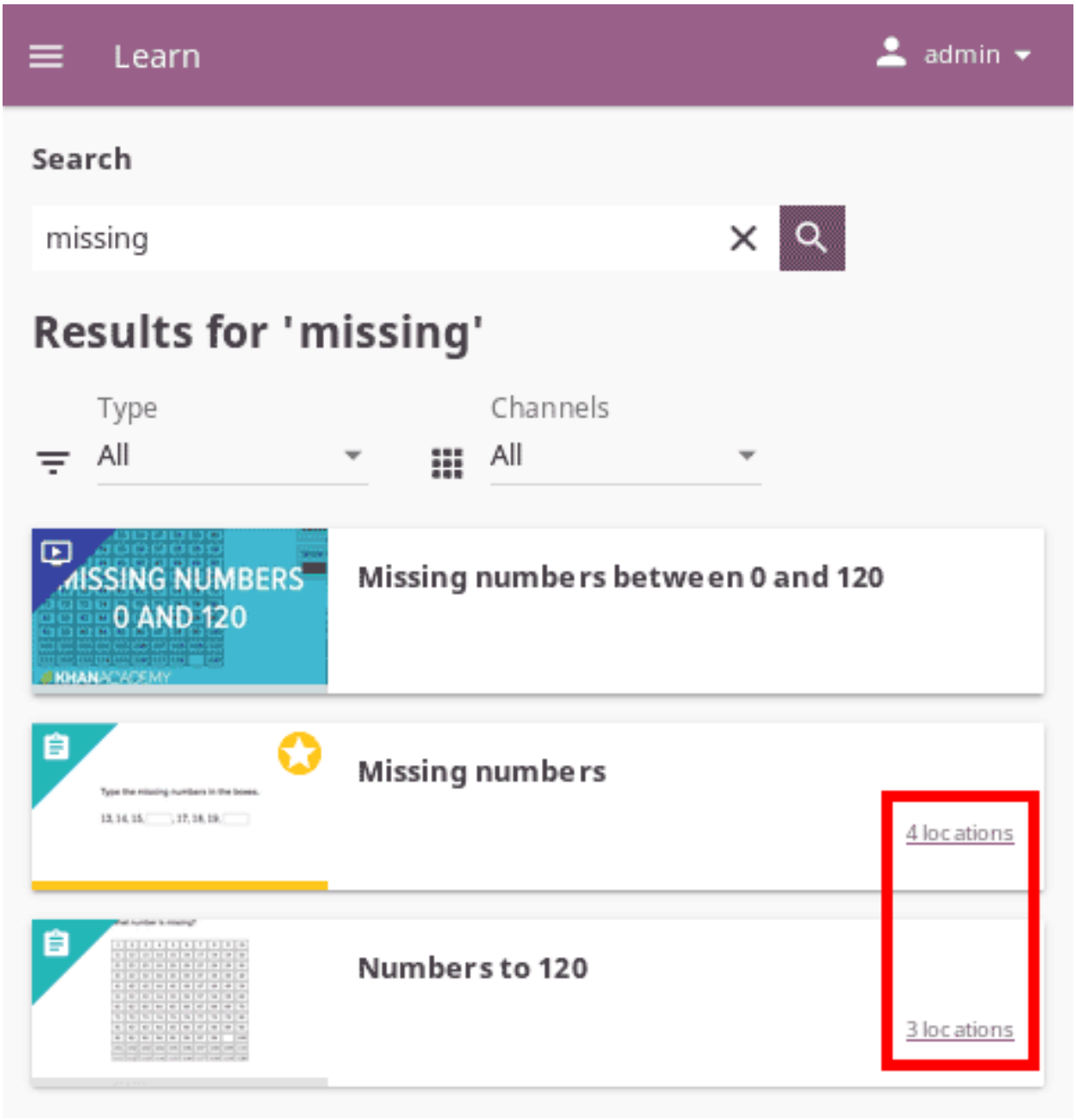


Fig. 30: Duplicated resources in the search results.

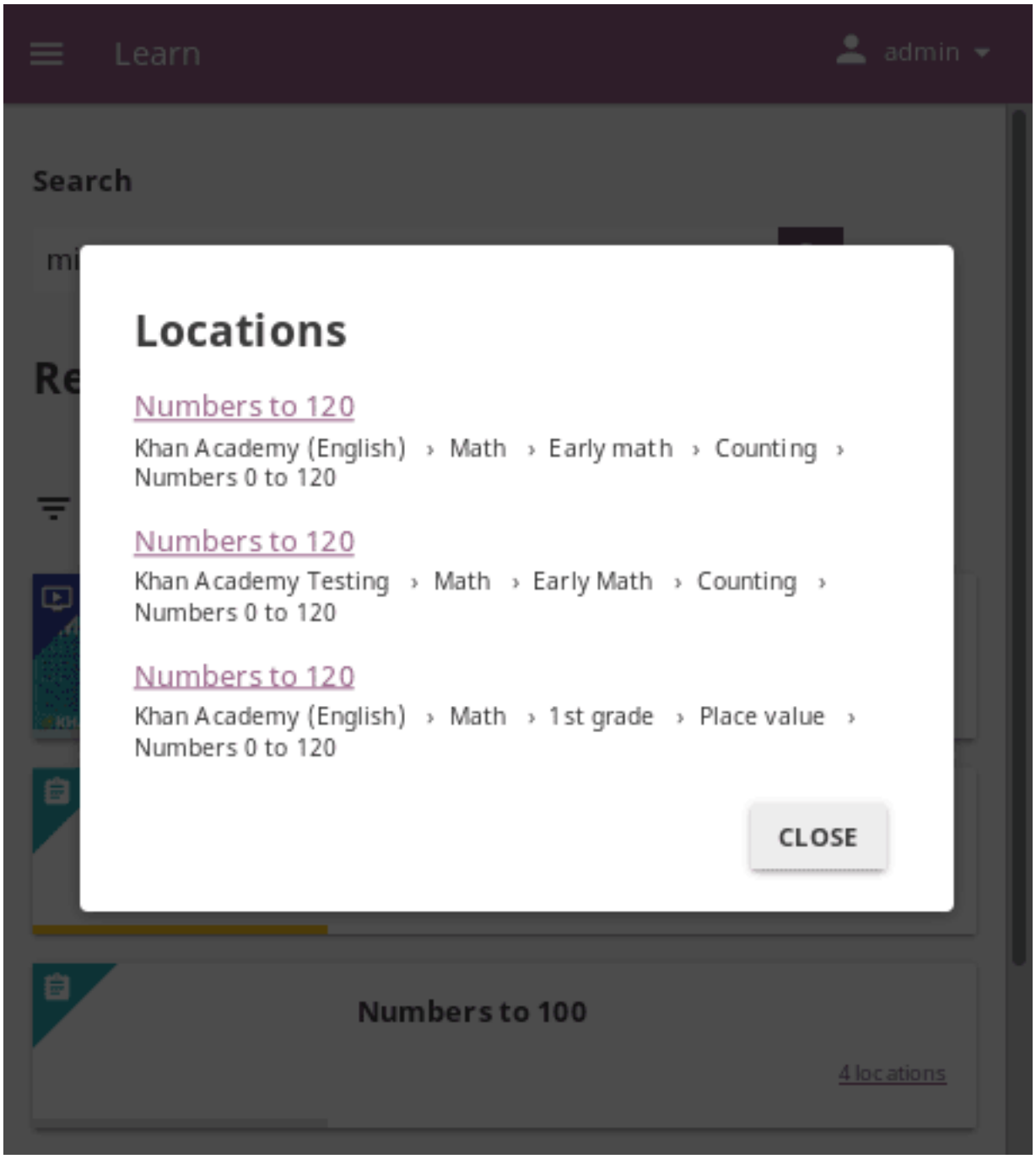


Fig. 31: Details for the duplicated resources in the search results.

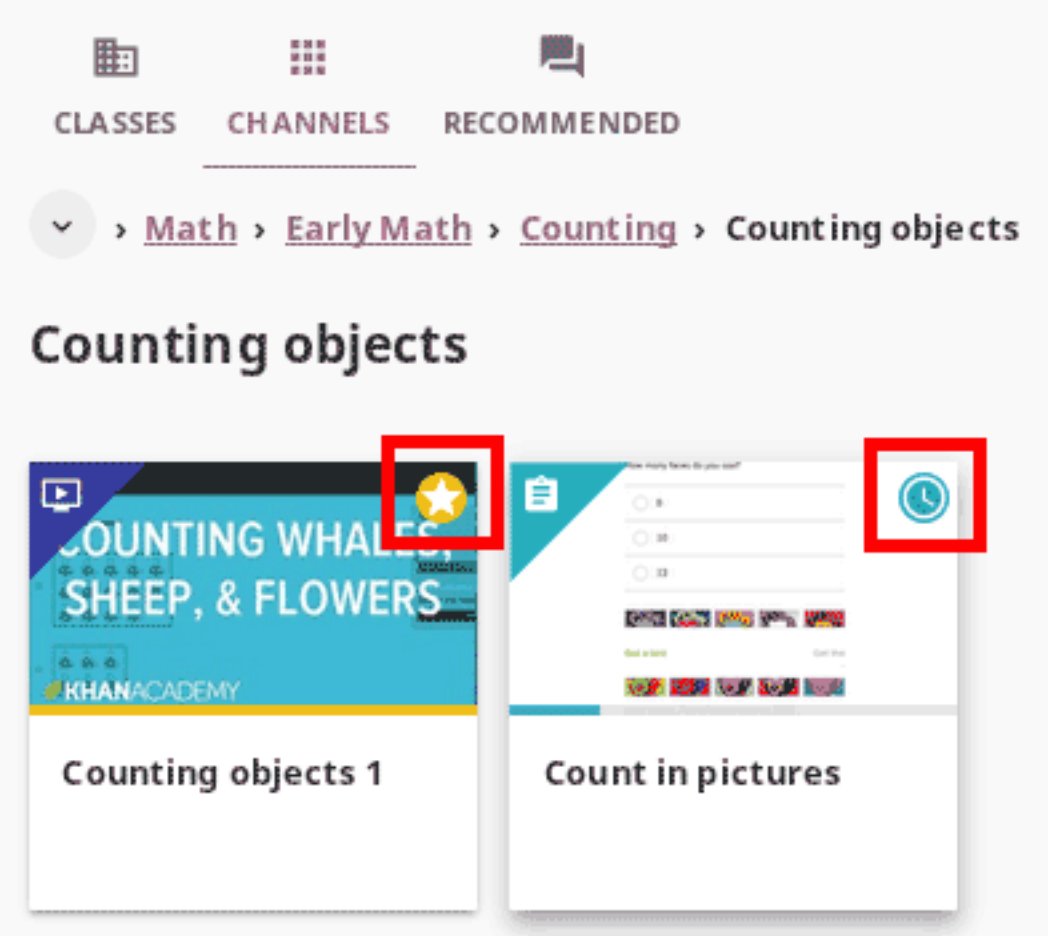


Fig. 32: Progress indicators for learning resources.

2. Write the answer or choose one of the provided options.
3. When you are ready to submit, click the **Check** button.

    - When the answer is correct and a icon appears in the progress bar below the exercise, click the **Next** button to proceed.
    - If the answer is incorrect, read the question again, and try another answer. You can also click the **Use a hint** button, read the suggestions, and try to answer again.
    - The progress bar below the exercise is taking into account only the most recent answers you give, which means that you need to have the required number of icons **in the row** for the exercise to be considered completed.

Fig. 33: The correct answers in the image above are not in a row; this exercise will be completed only after you give 5 correct answers one after another.

4. Once you have achieved the required number of correct answers in a row, you will be rewarded points, and see the suggestion to continue. Click the **Next resource** below to continue learning with the rest of the material in that topic.
5. If you are unable to solve some questions, try reviewing the videos in that same topic, or seek help from your peers or teacher/coach.

Video and Audio Player options

To play videos and listen to audio files in Kolibri you have several available control buttons at the bottom of the player screen. Move the cursor or tap on the player screen to make appear the control buttons while playing.

(controls at the bottom of the player)

- Play/Pause buttons
- Rewind/Fast forward buttons by +/- 10 seconds
- Time tracker indicator with progress bar
- Video duration indicator
- Volume scrollbar
- Playback speed selector
- Display **closed captions** (subtitles)
- Fullscreen button

Use the **Download content** button below the player to download the video, audio and thumbnail files to your computer. Some videos will provide multiple resolution options.

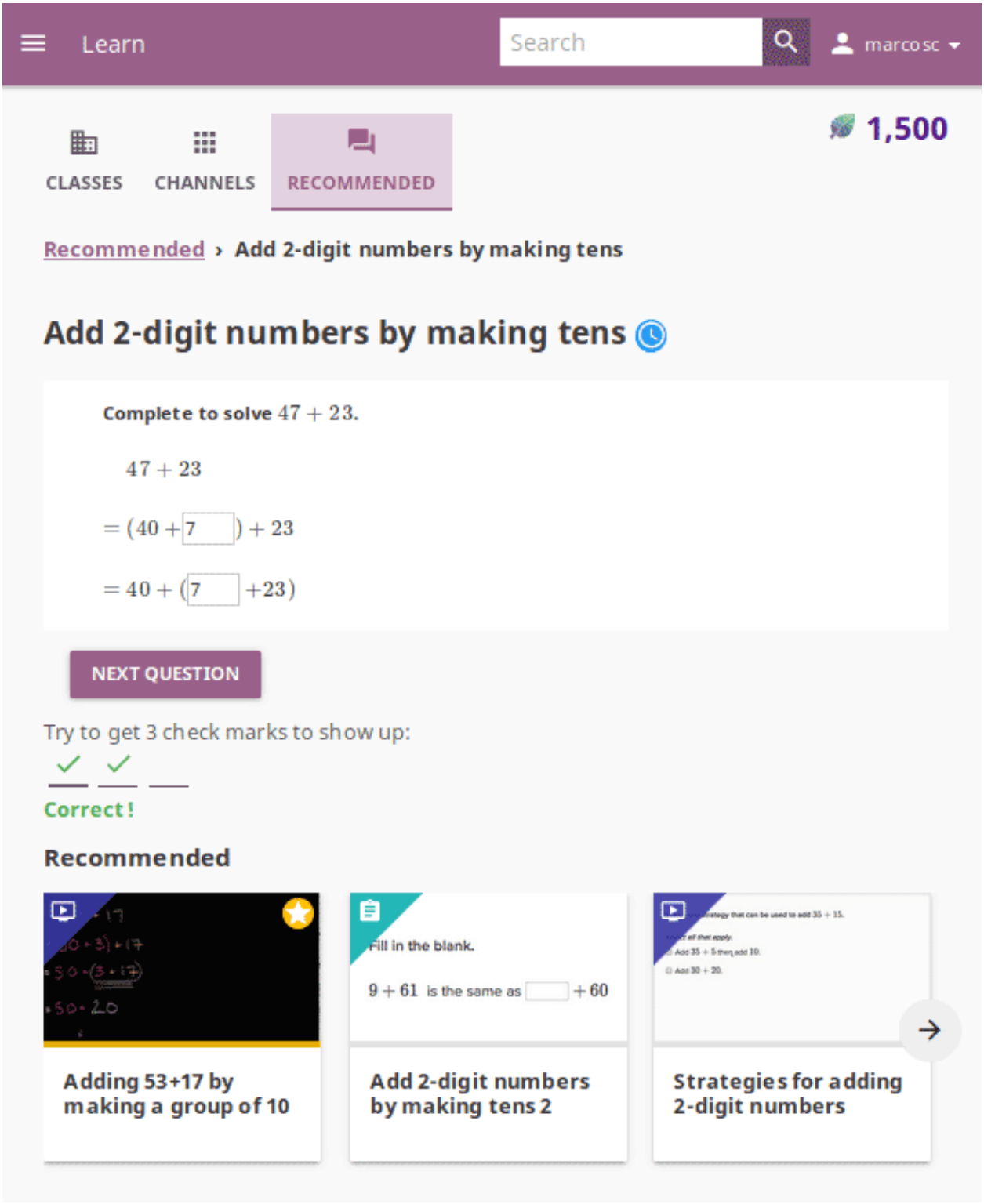


Fig. 34: Exercise page in Kolibri.

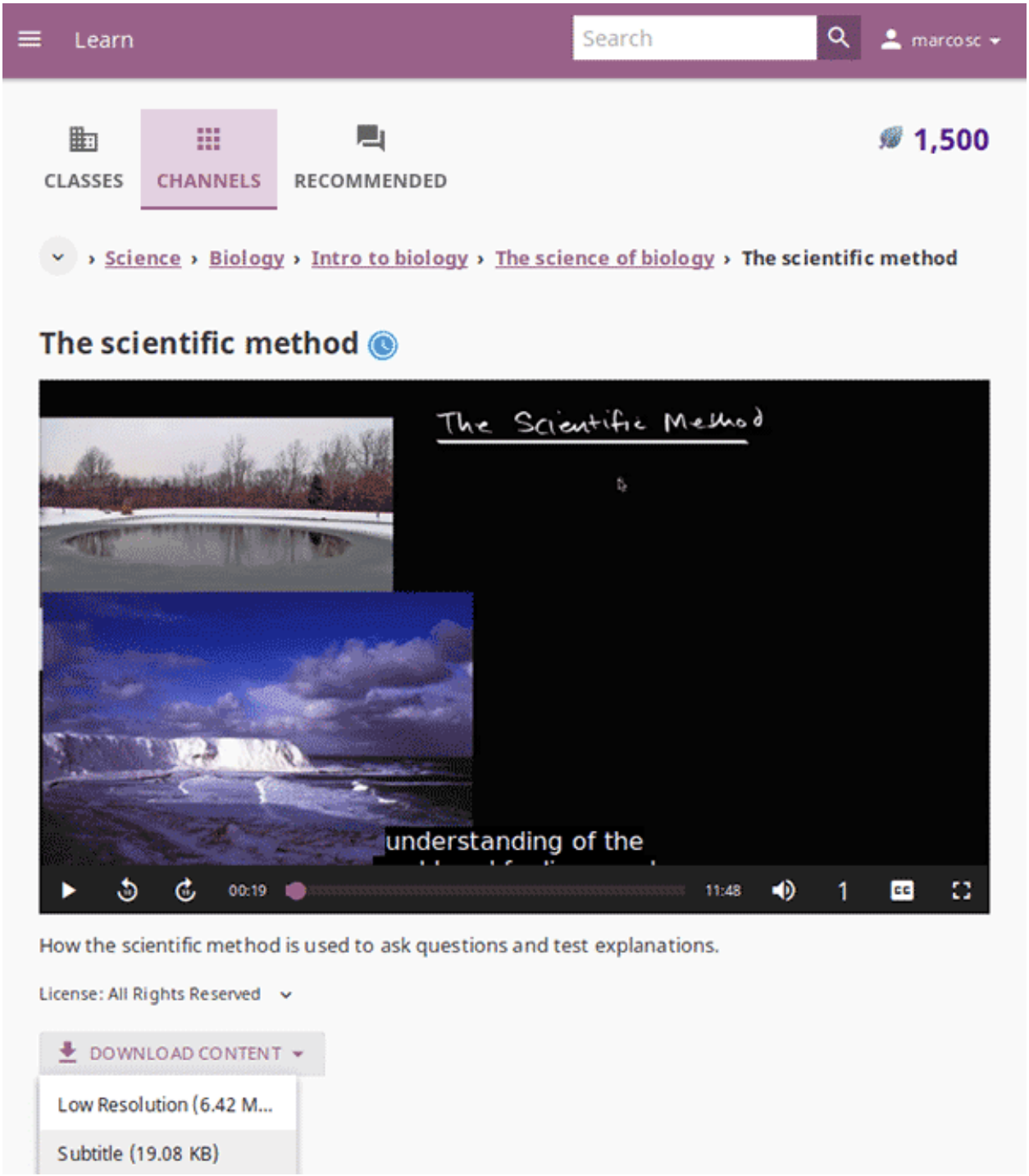
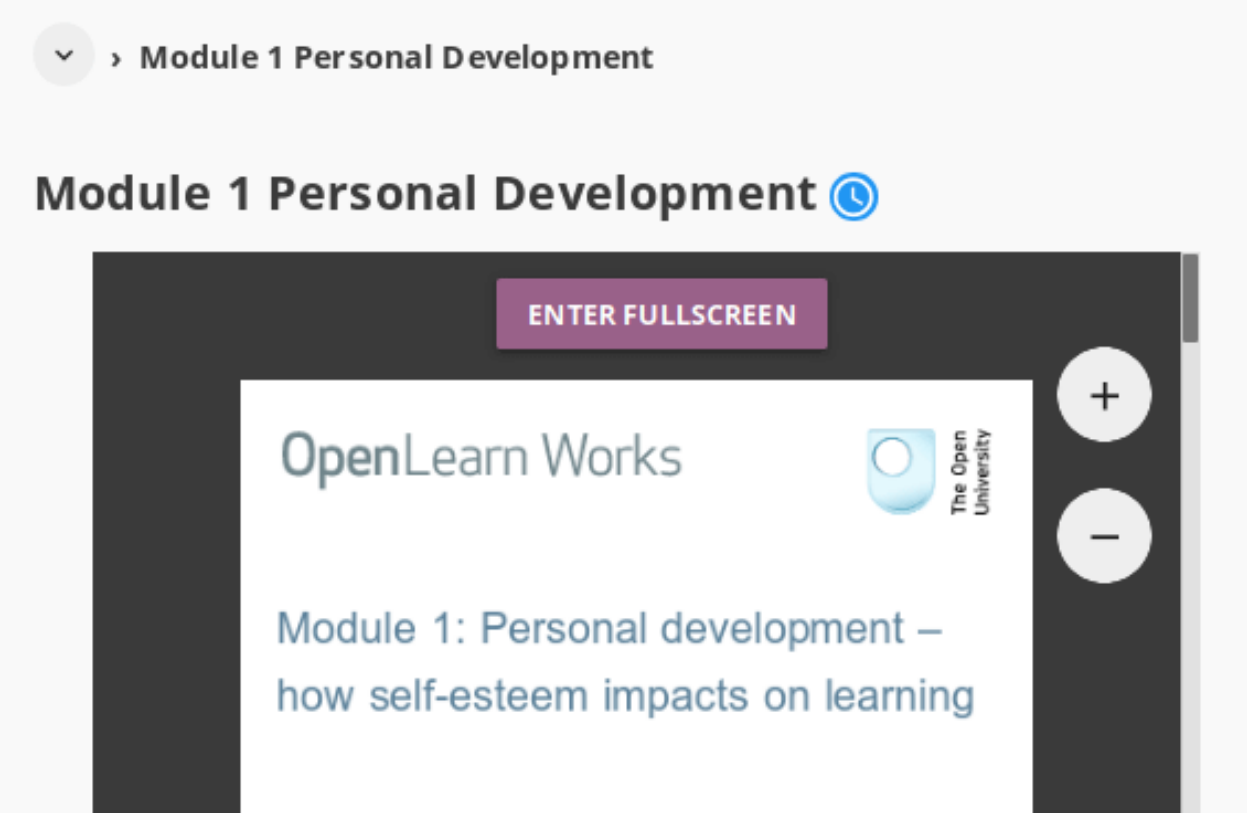


Fig. 35: Kolibri video and audio player.

PDF Viewer options

Note: Options for viewing PDF files will depend on the browser and operating system you are using to view Kolibri.

- Use the **Enter fullscreen** button to open the PDF file in fullscreen view.
- Use the **Esc** key to close the fullscreen view and return.



Use the **Download content** button below the PDF viewer to download the PDF file to your computer.

Lessons

Your teacher or coach may prepare a *lesson* (icon), a recommended set of learning resources for you or your class to view. You may have more than one lesson available at the time in the **Class** tab, below the **Lessons** heading.

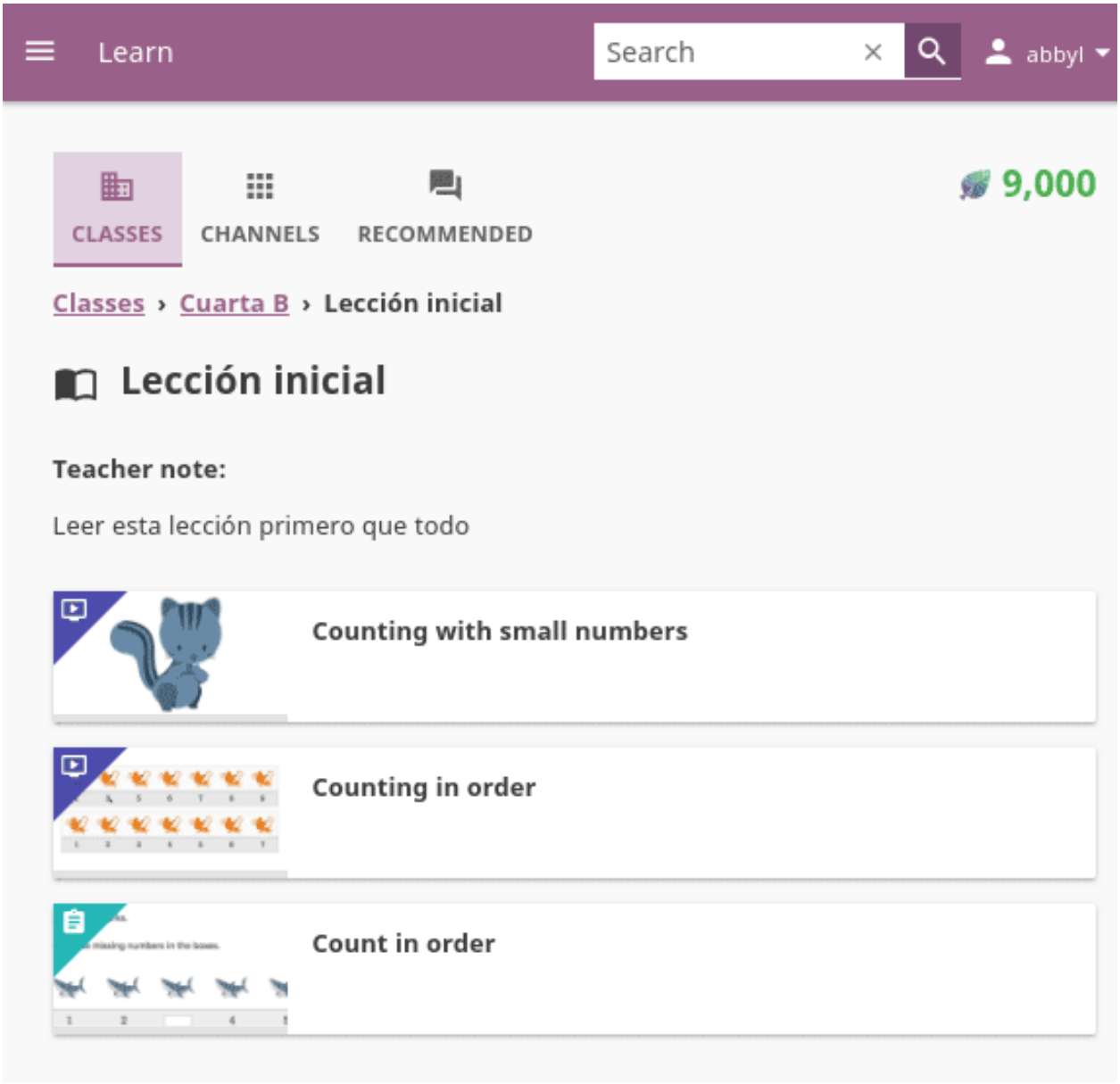
Click on a lesson title to open its content, and follow the indications of your teachers or coaches on how to use it.

Exams

If your teacher or coach scheduled an *exam* (icon) for you or your class, it will be available in the **Class** tab, under the **Exams** heading. You may have more than one exam available at the time.

If the exam is listed as *Not started*, follow these steps.

1. Click on the exam when you are ready to start taking it.


Learn
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CHANNELS
RECOMMENDED
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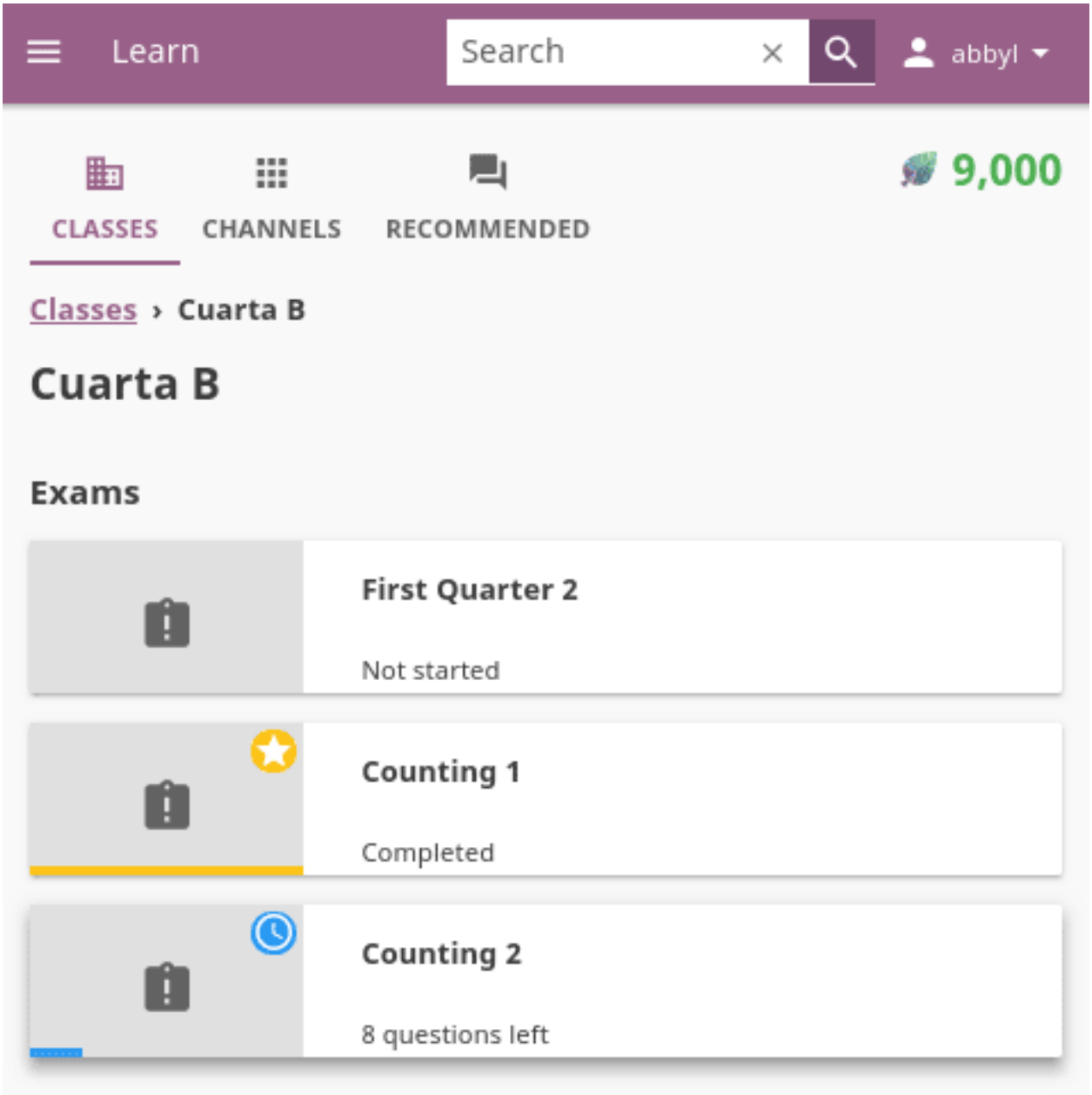
Classes › Cuarta B › Lección inicial
Lección inicial
Teacher note:
Leer esta lección primero que todo
Counting with small numbers
Counting in order
Count in order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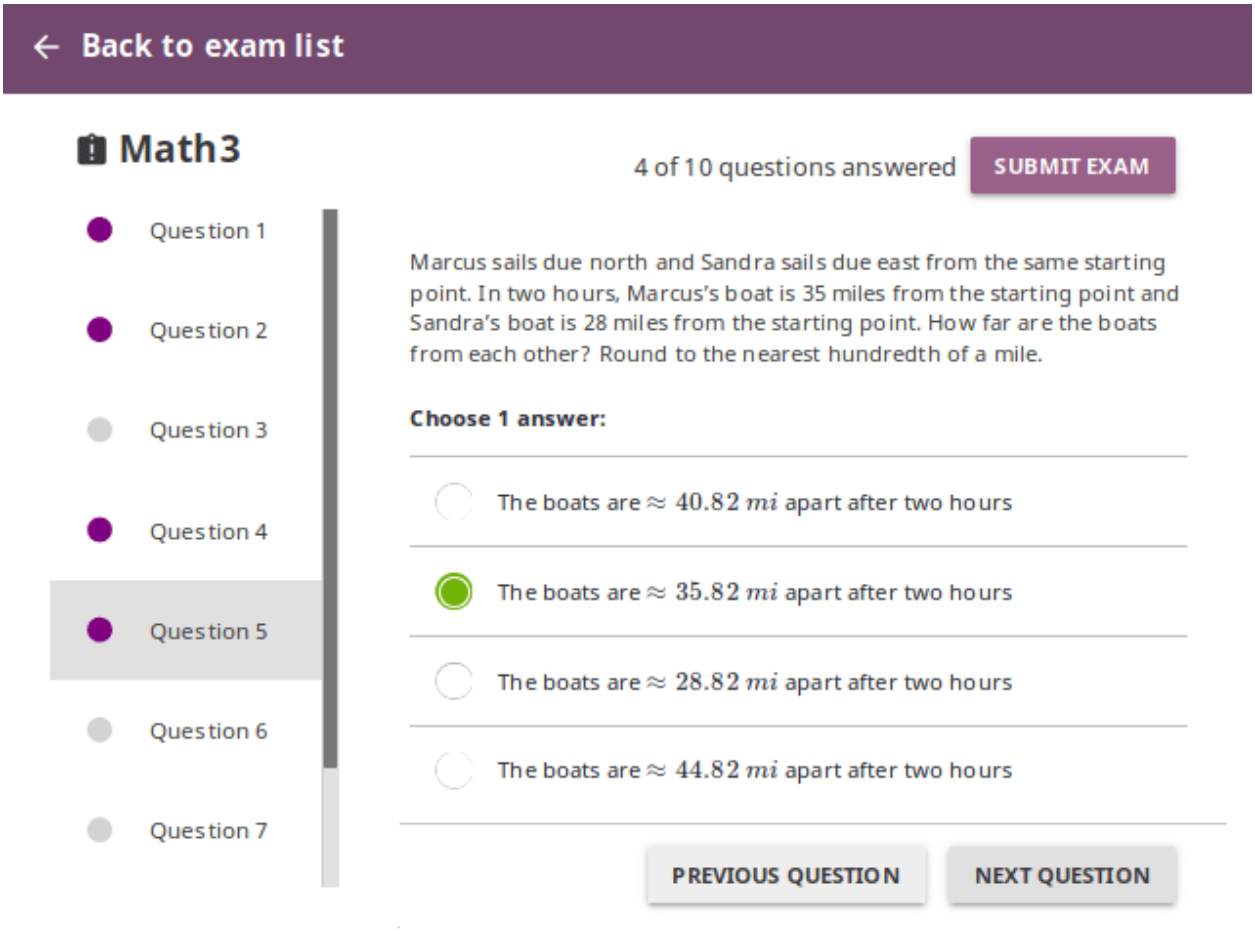
RECOMMENDED
Classes › Cuarta B
Cuarta B
Exams
First Quarter 2
Not started
Counting 1
Completed
Counting 2
8 questions left

2. You can go on answering the questions in the order you prefer: move through questions with **Previous** and **Next question** buttons, or click on the question number in the column on the left side.



3. Each time you fill in the answer field, or select one of the available options, the question will be marked by a colored dot in the column on the left side.
4. You can review and correct your answers to all questions as many times you need before submitting.
5. Press the *Back to exam list* if you want to pause the exam and come back later.
6. Press the button **Submit exam** when you want to submit it for grading.

Exam that you did not yet submit will be marked with the icon, so you can easily recognize it, and click to resume when you are ready.

Once you complete and submit an exam, it will be marked with the icon, but you can still click on it to see the score and review your answers.

Tip: Use the **Show correct answer** checkbox to visualize the answer for the questions that you did not answer correctly.

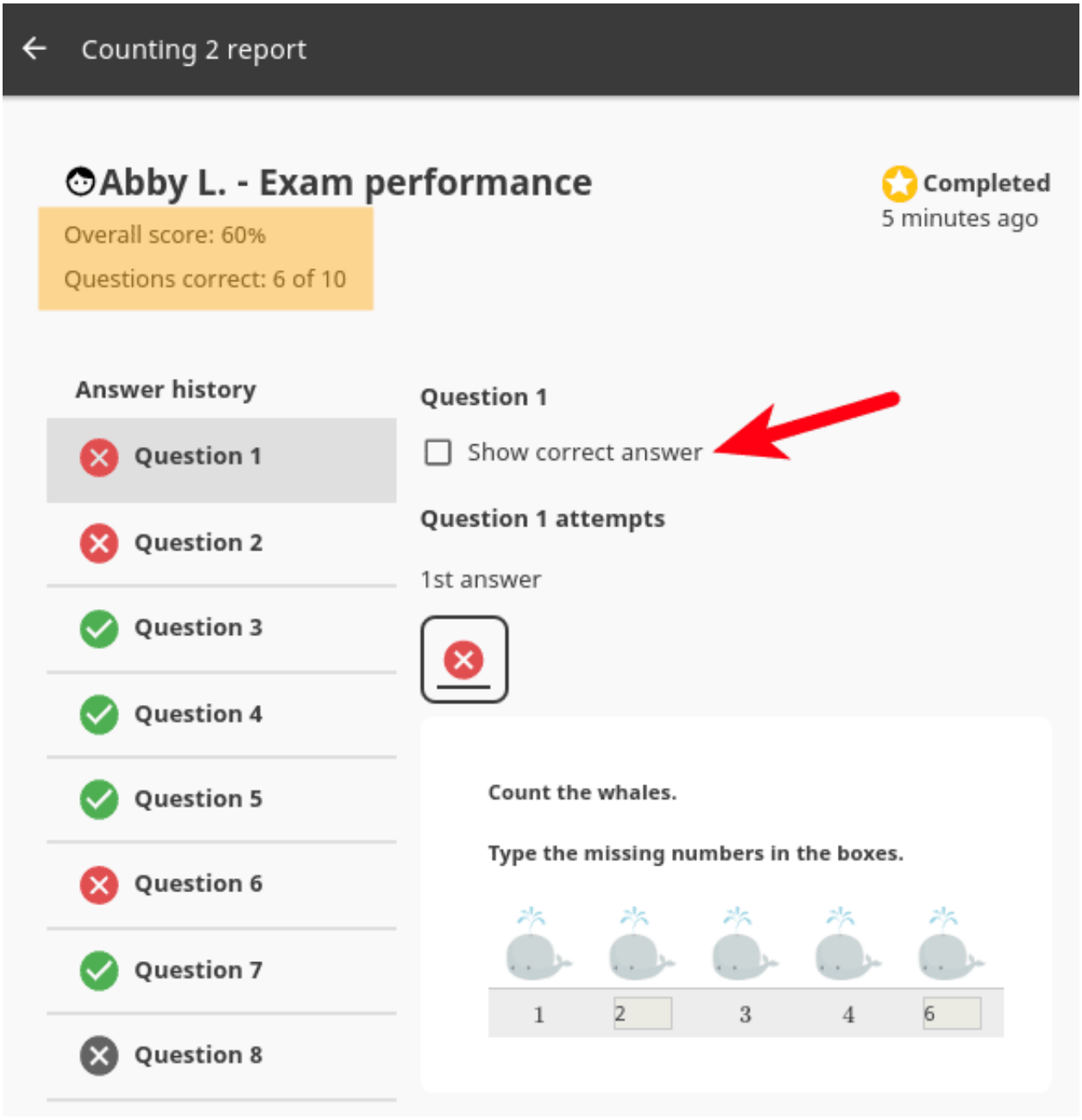


Fig. 36: Open the completed result to review your answers.

3.6 Frequently Asked Questions

3.6.1 How much does Kolibri cost to install?

Kolibri is **free and open source** software! To learn more about free software, see this Free Software Foundation article.

3.6.2 Do I need the internet to run Kolibri?

Short answer: **No!** You can bring or send a storage device (USB or HDD unit) with Kolibri installer and content channels downloaded somewhere with available internet connection, and install everything on an completely offline device.

In a nutshell, Kolibri can run independently of internet availability, but you need to procure the installer and content channels from somewhere for the initial installation and for subsequent upgrades.

One possibility is to have Kolibri installed in one location with internet connection, where you can import content channels from Kolibri Studio (curriculum tool and content curation server), and then export them to removable USB drives that you bring or send to offline locations (rural schools, refugee camps, etc.) to import locally.

3.6.3 What languages is Kolibri available in?

Both Kolibri and Kolibri Studio are translation-ready and currently available in these languages:

Language	Kolibri	Kolibri Studio
English	✓	✓
Arabic	✓	
Bengali	✓	
Burmese	✓	
Chinyanja	✓	
Farsi	✓	
French	✓	
Hindi	✓	
Kannada	✓	
Marathi	✓	
Portuguese (Brazil)	✓	
Spanish (Mexico)		✓
Spanish (Spain)	✓	✓
Swahili (Tanzania)	✓	
Tamil	✓	
Telugu	✓	
Urdu (Pakistan)	✓	
Yoruba	✓	
Zulu	✓	

To contribute to Kolibri and Kolibri Studio as a translator, you can get started over on our translations and internationalization page.

3.6.4 What are the typical deployment scenarios?

There is no typical implementation setting. However, we can share with you what we've learned from our community of KA Lite and Kolibri users. Some example implementation settings are provided below based on the presence of a coach and whether the settings allows for formal, non-formal, and informal learning.

	Coach	No Coach
Formal and Non-Formal	• School classroom • Home schooling • Supplementary education setting	• After school program • Supplementary education setting (computer labs model) • Use in classroom that has teacher, but without coach engagement or monitoring
Informal	• Tutoring session	• Mobile school vans • Use for homework only

3.6.5 What are some possible hardware configurations for deploying Kolibri?

To deploy Kolibri for multiple users you will need:

1. **Server device**: a computer that is running the Kolibri software (e.g. a desktop computer, laptop, or Raspberry Pi).
2. One or more **client devices** that have web browsers (laptops, tablets, desktop computers, etc)

Note: For a single-device deployment (1) and (2) can be the same computer, with the browser connecting to the locally running Kolibri server. To make the software accessible to multiple client devices, you will need to put them on the same local network as the Kolibri server device (1), e.g. through a WIFI access point.

To read more details, see the full Kolibri Hardware Guide and examples of Hardware Configurations for Kolibri (PDF documents).

3.6.6 How can I generate content aligned to local curriculum?

Use Kolibri Studio curriculum tool to curate content channels aligned to your local requirements. Once you finish creating the channels on Studio, you can import them on all your Kolibri deployments for use in learning environments.

3.6.7 Bulk Downloads of Content Channels

```
Coming soon!
```

At this time we do not support bulk downloads of content channel outside the Kolibri platform. In the near future, we will consider offering bit torrents for certain global content channels.

3.6.8 Something isn't working!

Refer to the *Troubleshoot and Support* section of this guide.

3.6.9 Who maintains the Kolibri project?

Kolibri is created, maintained, and operated by Learning Equality.

3.6.10 How do you operate in the field?

The Learning Equality team primarily works in our San Diego offices, building software and shaping our road map based on our interactions with our partners around the world. We work with individual humanitarians and NGOs of all sizes to help them distribute Kolibri to offline communities around the world, and will work on site for research and training purposes.

3.6.11 What is Kolibri's affiliation with Khan Academy?

Kolibri is an independent, open-source project maintained by Learning Equality, and is not officially affiliated with Khan Academy, although they are very supportive of the Kolibri project.

3.6.12 Can I contribute to Kolibri as a developer?

Yes! Kolibri is an open source project, and developers are encouraged to contribute!

3.6.13 Can I contribute to Kolibri as a translator?

Yes, absolutely! To contribute to Kolibri and Kolibri Studio as a translator, you can get started over on our translations and internationalization page.

3.6.14 How do I find out more about Learning Equality and Kolibri?

To stay up-to-date on all our activities, follow our blog, Twitter, and Facebook!

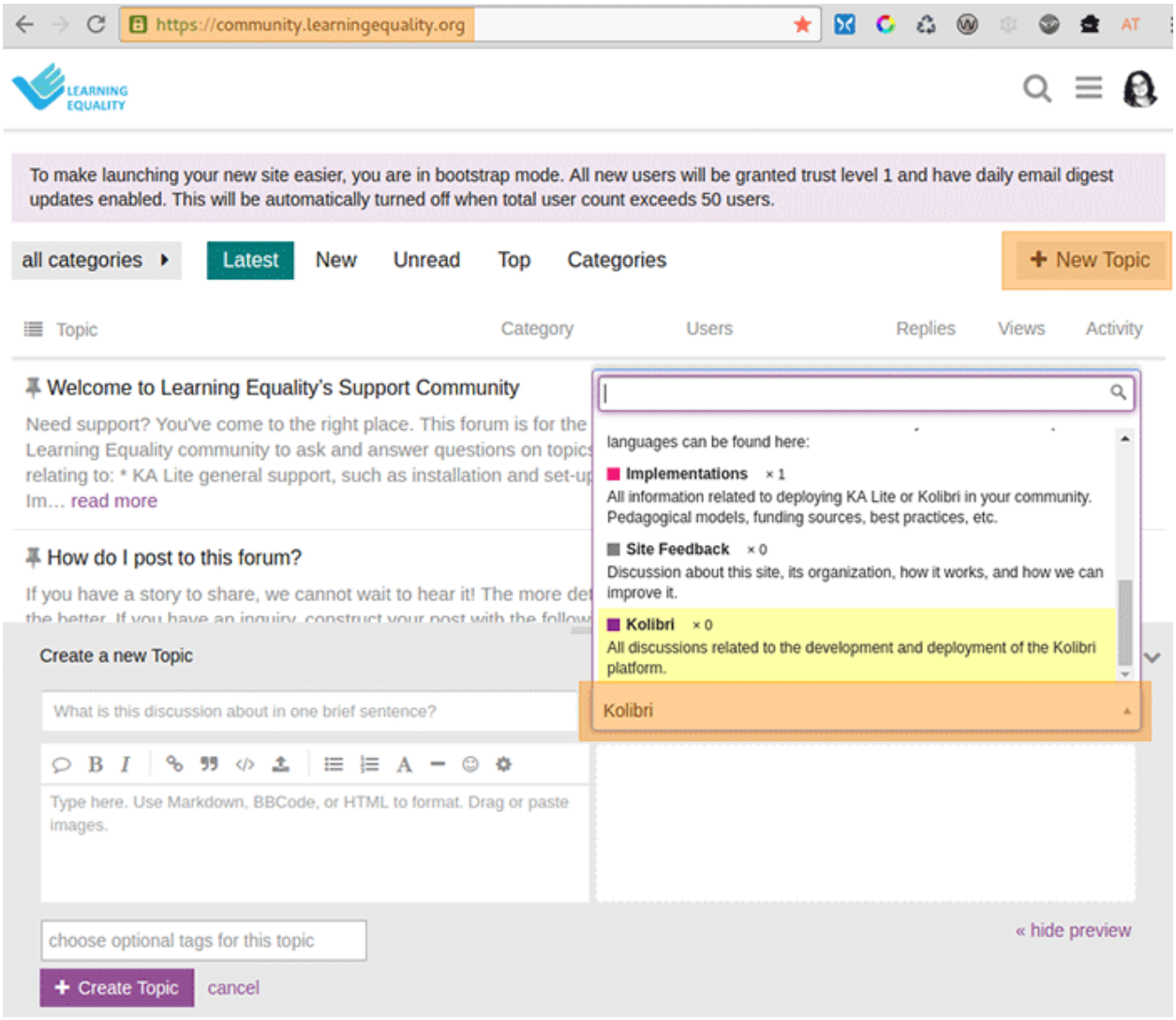
3.7 Get in touch

3.7.1 Getting support from Learning Equality and our community

Due to the open-source nature of our work, we encourage that all inquiries, inputs, contributions and feedback are openly shared in our Community Forums, so that any user with similar questions to yours can benefit from the answer, and have a centralized place to search for it. *Please consider supporting others whenever you can. Your goals are likely overlapping with other users of Kolibri, so you may consider yourself as part of a community of like-minded practitioners!*

The first thing you need to do is register on the forum. Once registered, please read the the first two pinned topics (*Welcome to LE's Support Community* and *How do I post to this forum?*)

You can add a new topic with the **+ New Topic** button on the right. Make sure to select the appropriate category in the **Create a New Topic** window to facilitate the triage and response processes.



3.7.2 Feedback

New ideas

Until we can present a proper feedback platform, we encourage you to post any new ideas to the Community Forums.

Technical issues

In order to report a technical issue, you can either use the *Support* category in our forum, or open up an issue report in our public software repository, following the guidelines:

github.com/learningequality/kolibri

3.7.3 Contributions and development

Kolibri is an open-source project, and as such, contributions from the tech community are welcomed, encouraged and appreciated. If you'd like to contribute to Kolibri, please refer to our developer docs:

kolibri-dev.readthedocs.io