



# User Manual

## Table of Contents

### [Table of Contents](#)

#### [Introduction](#)

[What is KA Lite?](#)

[What are the goals of KA Lite?](#)

[How can KA Lite be used?](#)

[Who uses KA Lite?](#)

[How is this guide organized?](#)

#### [Administrators](#)

[Who is an “administrator”?](#)

#### [Setting up KA Lite](#)

[Registering Your Device with the Hub](#)

[How to register your device](#)

[Important Terms for Project Administrators to Know](#)

[Organization](#)

[Sharing Network](#)

[Facility](#)

[Device](#)

[Post Registration Setup](#)

[How to create a facility](#)

[How to delete a facility](#)

#### [User Management](#)

[Adding students and coaches](#)

[How to add a student](#)

[How to add a coach](#)

[Adding a Group](#)

[Moving a User to a New Group](#)

[Deleting Groups](#)

[Group Summary Statistics](#)

[Removing Users From a Group](#)

[Permanently Deleting Users](#)

[Edit User Information](#)

[Downloading Videos](#)

[Downloading Language Packs](#)

[How to delete a language pack](#)

## [Students](#)

[Who is a “student”?](#)

[What can a student do in KA Lite?](#)

[How can students get an account?](#)

[How can students log in?](#)

[Administrators: How to find your IP address:](#)

[How can I watch a video?](#)

[How can I practice exercises?](#)

[How can I view my progress?](#)

[How can I update my account information?](#)

## [Coaches](#)

[Who is a “coach”?](#)

[How can coaches use KA Lite?](#)

[Coach Reports - What are they?](#)

[Understanding the Table Report](#)

[Progress By Topic \(Table Report\)](#)

[Understanding the Scatter Plot Report](#)

[Effort Versus Achievement \(Scatter Plot Report\)](#)

[Understanding the Timeline Report](#)

[Mastery Over Time \(Timeline Report\)](#)

## [Advanced Admin](#)

[Downloading Videos in Bulk](#)

[User Management Tools](#)

[Adding a Group](#)

[Moving a User to a New Group](#)

[Deleting Groups](#)

[Group Summary Statistics](#)

[Removing Users From a Group](#)

[Permanently Deleting Users](#)

[Edit User Information](#)

[Updating KA Lite](#)

[Updating on Mac OS](#)



[Updating on Linux](#)[Updating on Windows](#)[Management Commands](#)[How do I run them?](#)[What commands are available?](#)[KA Lite-related commands -- OK to use](#)[KA Lite testing related commands -- DON'T use these!](#)[KA Lite-unrelated commands -- DON'T use these!](#)[Configuration Settings](#)[Glossary of Terms](#)[Project Administrator](#)[Coach \(also referred to as 'facilitators' or 'teachers'\)](#)[Students](#)[Mastery](#)[Organization](#)[Sharing Network](#)[Facility](#)[Device](#)

# Introduction

## What is KA Lite?

KA Lite is software that allows users without Internet access to engage with [Khan Academy](#) videos and exercises in completely offline settings, bringing the flipped classroom model to some of the most remote areas in the world. Users can track their progress through videos and exercises, and coaches can log in and check up on their progress to identify which areas the students need the most help in. If KA Lite ever reaches an Internet connection, it can sync this usage data with the KA Lite Hub, an online data repository that allows project administrators to view data and manage accounts remotely of offline deployments.

## What are the goals of KA Lite?

KA Lite's goal is to make the high-quality educational resources and tools provided by Khan Academy accessible to the estimated 65% of the world that don't have access to Internet.

## How can KA Lite be used?

KA Lite can be used in two main ways:

1. KA Lite can be installed on one local computer which acts as a server, with client devices connecting to this local server to watch the Khan Academy videos, and to work on practice problems. A coach can then check on each students progress. This method

is typically used by schools and other educational institutions.

2. KA Lite itself can be installed on the client device itself, and be used to download Khan Academy videos for offline viewing. In this way, KA Lite is almost like a piece of software that you'd install on your computer, except it runs in the Internet browser.

## Who uses KA Lite?

Reaching offline or low-bandwidth communities with KA Lite is a team effort, and we find that a wide variety of people come together to make that happen. In a typical KA Lite deployment, there are 3 types of people involved with the project, which are organized into user types:

1. a **project administrator** plans out the deployment and logistics, procures the devices and installs KA Lite, and oversees their delivery and integration into the classroom or community. They can also update the software, add content, customize configuration settings, and manage user accounts.
2. **coaches** (also referred to as 'facilitators' or 'teachers') are users who add, manage, and track the progress of groups of students. They have access to student progress data in the form of coach reports, and can step in and provide individualized instruction when the student needs it.
3. **students** are users who use KA Lite primarily for learning. They earn points for watching videos and answering exercises correctly, and their progress is tracked by the system.

## How is this guide organized?

This guide assumes that you have already downloaded and installed the KA Lite software on your computer. If you have not yet completed these steps, please see the KA Lite installation guide. From here, the guide is organized by the different "user types" within KA Lite: administrators, coaches, and students. The guide explains the different features that are available for each user and how they can put them to best use.

# Administrators

## Who is an "administrator"?

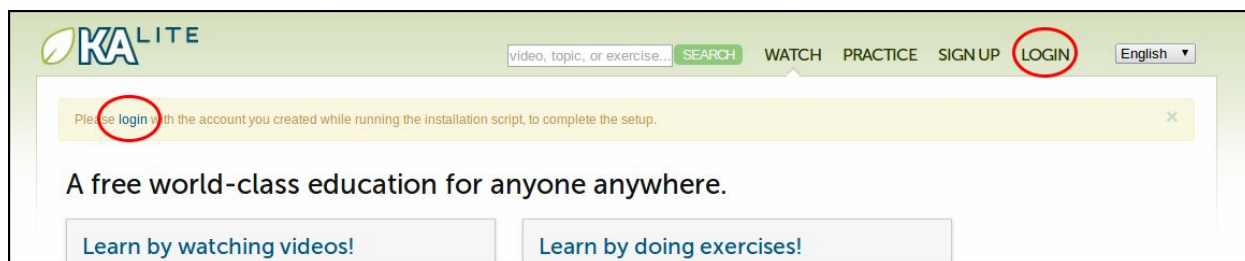
A person who :

- helps to plan and oversee a project using KA Lite
- installs and updates KA Lite
- can create coach logins, student logins, download videos and language packs

## Setting up KA Lite

Once you have successfully installed KA Lite, the installation script will give you a URL

(<http://127.0.0.1:8008/>) to visit so that you can login for the first time. Load up the URL in your browser and login to KA Lite using the username and password you created during the installation process. If you have forgotten this username and password combination, you can simply delete this version of KA Lite (delete the “ka-lite” folder that you downloaded during the installation guide steps for your system and then redo the installation steps in the Install Guide). If it is critical that you are able to login with your credentials, contact us and we can help you manually reset your login information.



Once you’ve logged in, the next step in the setup process is registering your device with the KA Lite Hub.

## Registering Your Device with the Hub

By registering your device with FLE, you can sync data back with our central data hub. This is useful for many reasons:

1. a project administrator can manage user accounts and view usage data from afar, without needing to physically visit the offline device.
2. usage data syncing back can inform the FLE team of multiple users in a certain geographic region, and we can connect people that might be able to help one another
3. it helps FLE and our partners understand where and how the software is being used, so we can keep adding features that support you!

## How to register your device

1. Be sure that you have access to the Internet for the registration process.
2. Log in to your installed version of KA Lite
3. Click Register Device link in the top navigation.



4. Once you are on the Register Device page, you will see two options for registering.

**What is device registration?**

Once you register your installation with us, your data can be synced to our online repository when KA Lite has access to the Internet. This is a good thing! Here's why:

- Your data will be backed up online
- You can login online and review your usage data
- Our team can use this data to objectively assess the impact our work is having around the world!

**Ready to register? You have two options:**

1-click registration (no online access to data)

The perfect option for individual users who just want to get KA Lite up and running fast and don't need online access to data.

This allows you to get the registration process over in one-click without worrying about creating a login that you're never going to use.

1-click registration now!

Register with online access to data!

The perfect option for administrators of larger projects!

This option will walk you through the process of creating a login to our website that will allow you access your uploaded data and connect multiple installations to the same account.

click this link to start the registration process with an online account

Register with an online account now!

FOUNDATION FOR LEARNING EQUALITY creators of KA Lite © 2014 Videos and Exercises © 2014 Khan Academy CC BY-NC-SA

**1-click registration** allows you to get up and running with KA Lite fast by skipping creating an online account and registering your device anonymously with our central data hub. The downside to this is that you won't be able to log in online and view your synced data. This option is best for users who are just using KA Lite for personal use, or for users who will never need to login online to view their data.

**Online registration**, the second option, walks you through the steps of creating a free account on our central data hub, so that you can later login and view your synced data. This option is better for larger and more formal projects so that you can see all of your data in one place, allowing you to share data from multiple devices that are associated with your organization.

If you choose one-click registration, you will be automatically registered with our central data hub, and can proceed to *"Post-Registration Setup"*. If you choose online registration, you can follow along with the instructions below for more information.

For users that choose to register online, there are some important terms to familiarize yourself with so that you understand how the flow of data works between installations and the online data hub.

## Important Terms for Project Administrators to Know

### Organization

An Organization is a group of people responsible for administering a set of Sharing Networks. An organization can have multiple administrators and manage multiple sharing networks.

### *Sharing Network*

A sharing network is a group of devices that share data between one another.

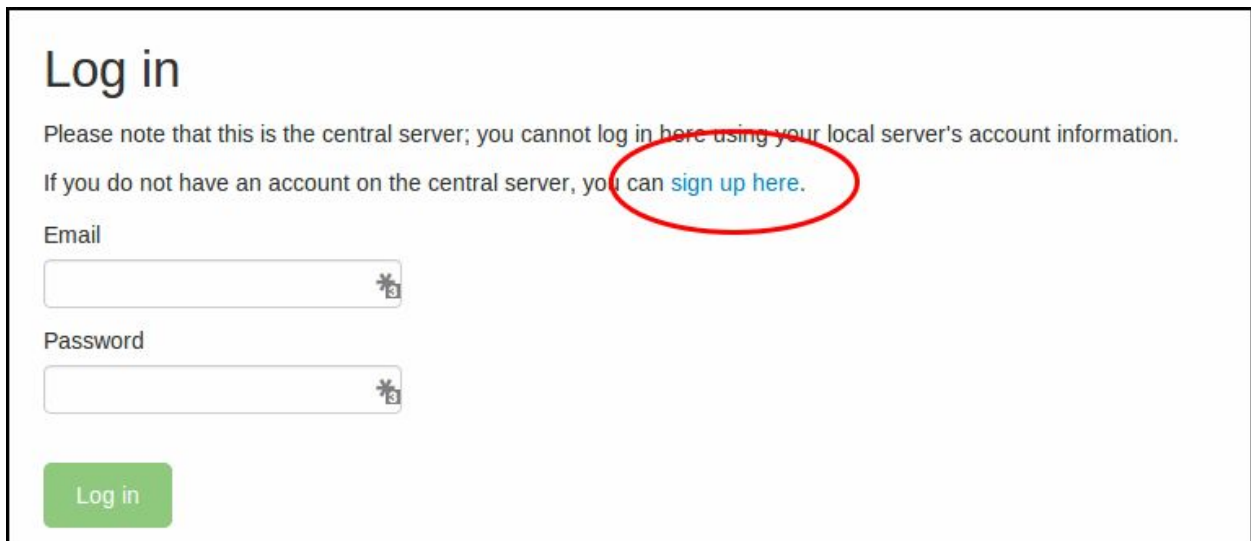
### *Facility*

A facility is the physical space in which a device is located (e.g. a school or a computer lab in a community center). Student, coach, and admin accounts are associated with a particular facility.

### *Device*

A device should be able to run a KA Lite server (most computers) and other devices to be used as clients. One common configuration is using a [Raspberry Pi](#) or other inexpensive computer as a server and relatively cheap tablets as client devices. Tablets can access the servers through an access point, such as a Wi-Fi dongle, or some other networking device such as a router.

1. After clicking “Register with an online account now!” you will be redirected to the KA Lite Hub website login page. Instead of logging in with your local server account info, click the sign up here link to sign up.



**Log in**

Please note that this is the central server; you cannot log in here using your local server's account information.

If you do not have an account on the central server, you can [sign up here](#).

Email

Password

[Log in](#)

2. Fill in all the information on the create an account page.
3. Click register to submit the information you have entered, and finish creating an online account.

## Create an account

First Name:

Last Name:

Email address:

Organization Name:

[Add details of your organization](#)

Password:

Password (again):

☐ I acknowledge that the Khan Academy videos and exercises used within KA Lite are for [non-commercial purposes only](#).

☐ I acknowledge having read the [Khan Academy API terms of service](#), and that KA Lite uses this API.

☒ Subscribe to our quarterly newsletter, to stay up to date on KA Lite's progress.

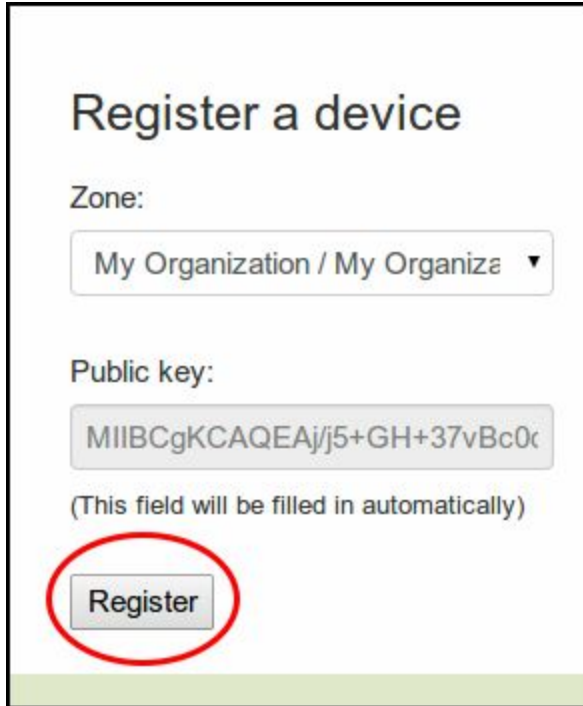
[Register →](#)

4. After you click register, you will receive an email with a link to activate your online account.
5. Click the link in the email you received, and a new tab will open up in your browser with a notification that you have successfully created your online account.
6. Log in to the KA Lite Hub with your new online account. From here, you can create organizations and add administrators to those organizations.

The screenshot shows the 'My Organization' page in the KA Lite interface. At the top, there is a navigation bar with links: HOME, INSTALL, FAQ, CONTACT, ABOUT US, and LOGOUT. The main heading is 'My Organization' with a help icon. A red arrow points from the text 'click to add a new organization' to a green button labeled 'Create a new organization'. Below this is a section for 'UCSD DEMO' with an edit icon. Under 'Affiliated Sharing Networks', there is a table listing 'UCSD DEMO Sharing Network' with a 'Manage' link, and a green button 'Create a new sharing network'. A red arrow points from the text 'create a new sharing network or zone with a set of devices that may connect to share data with each other.' to this button. To the right, under 'Organization Admins', there is a table listing 'Demo Admin' (You are the owner) and an 'Add Admin' section with an email input field (containing 'example@email.com') and a 'Send invite!' button. A red arrow points from the text 'add new administrators' to the 'Send invite!' button. At the bottom, there is a footer with copyright information and a Creative Commons license.

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 Except where otherwise noted, content on this site is licensed under a  
[Creative Commons Attribution 4.0 International license](#).

7. Log out of the online account once you have updated any information related to your organization.
8. Open KA Lite locally, and log in with your local account information, click “Register” and then click “Register with online account”
9. You will be brought to the login page of the online data hub again. Instead of pressing sign-up, log in with your new online account information.
10. Now you should see a new Register a device page. If you have multiple sharing networks, choose the zone you are registering a device for. You do not need to change the public key. Click register to complete the process.



**Register a device**

Zone:

My Organization / My Organiza ▼

Public key:

MIIBCgKCAQEAj/j5+GH+37vBc0c

(This field will be filled in automatically)

**Register**

11. Congratulations! You are done registering your device. To register another device, you only need to repeat steps 10-12 on the new device.

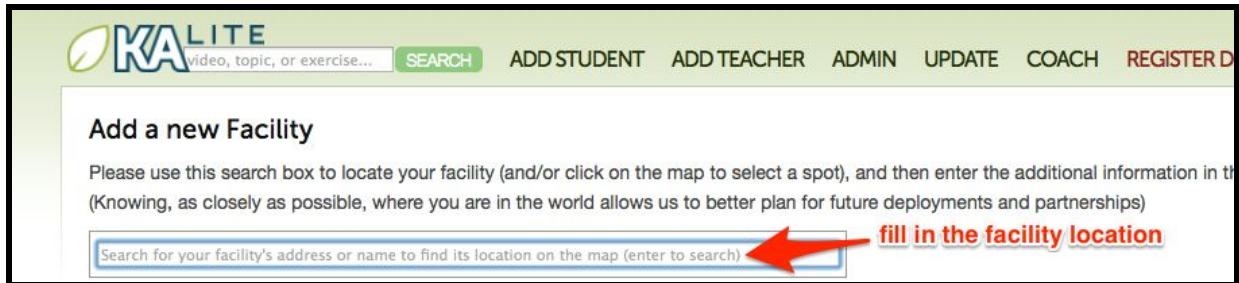
## Post Registration Setup

Now that you have registered successfully, it's time to configure your local KA Lite installation to suit your needs. If any terms like facility or device become confusing, feel free to reference the Glossary for a quick reminder.

## How to create a facility

KA Lite assumes that you are going to be using the software primarily in one place. This could be a school, a home, a community center, etc. We call this place a “facility”, and use it to help differentiate users who are syncing back data with our central data hub. In order to create a facility follow the steps below.

1. Login into KA Lite.
2. If it is your first time logging into KA Lite, you will automatically be brought to the Add a New Facility Page, where you will need to fill in the facility location.



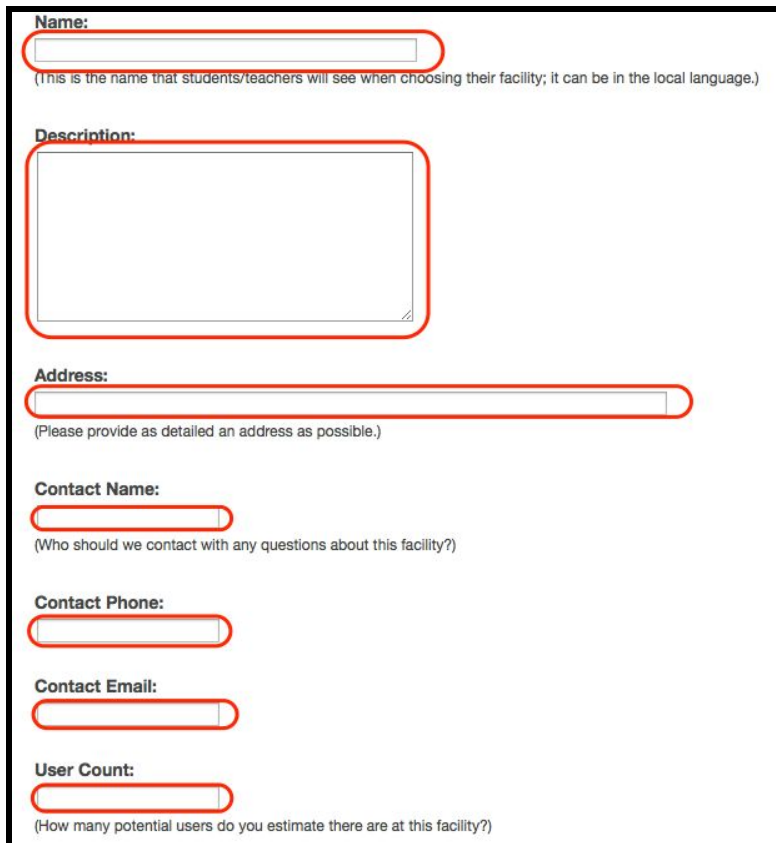
**KA LITE** video, topic, or exercise... **SEARCH** **ADD STUDENT** **ADD TEACHER** **ADMIN** **UPDATE** **COACH** **REGISTER D**

### Add a new Facility

Please use this search box to locate your facility (and/or click on the map to select a spot), and then enter the additional information in the form below. (Knowing, as closely as possible, where you are in the world allows us to better plan for future deployments and partnerships)

Search for your facility's address or name to find its location on the map (enter to search) **fill in the facility location**

3. Fill in the information for all the highlighted fields you will find below the map.



**Name:**  
  
 (This is the name that students/teachers will see when choosing their facility; it can be in the local language.)

**Description:**

**Address:**  
  
 (Please provide as detailed an address as possible.)

**Contact Name:**  
  
 (Who should we contact with any questions about this facility?)

**Contact Phone:**

**Contact Email:**

**User Count:**  
  
 (How many potential users do you estimate there are at this facility?)

4. Click save facility to save the information you have entered.

**Name:**  
  
 (This is the name that students/teachers will see when choosing their facility; it can be in the local language.)

**Description:**


**Address:**  
  
 (Please provide as detailed an address as possible.)

**Contact Name:**  
  
 (Who should we contact with any questions about this facility?)


**Contact Phone:**

**Contact Email:**

**User Count:**  
  
 (How many potential users do you estimate there are at this facility?)

 **click to save the facility information you have entered**





- Once the information has been saved, you will be brought to a new page, where you will see a message indicating that you have successfully saved your new facility.

 video, topic, or exercise...  [OVERVIEW](#) [USERS](#) [VIDEOS](#) [LANGUAGES](#) [HELP](#) [LOGOUT](#) Welcome, admin!

The facility "UCSD" has been successfully saved!

Local KA Lite Installation

**Facilities +**  
 A facility is a physical location where students learn.

Facility Name	# Users	# Groups	Last Usage	Delete
CLINTON B EULL III	4	1	June 15, 2014, 4:14 a.m.	
Field	15	0	May 14, 2014, 5:47 a.m.	
UCSD	0	0	Never	
Wilson Elementary	57	2	July 2, 2014, 1:27 a.m.	

## How to delete a facility

1. Login to KA Lite as administrator or navigate to the overview page
2. Press the delete icon to delete facilities
3. You will be prompted to type in the name of the facility to confirm deletion. Type in the name of the facility and confirm to finalize the deletion.

Facilities +				
A facility is a physical location where students learn.				
Facility Name	# Users	# Groups	Last Usage	Delete
CLINTON B EULL III	4	1	June 15, 2014, 4:14 a.m.	
Field	16	0	May 14, 2014, 6:47 a.m.	
Wilson Elementary	57	2	July 2, 2014, 1:27 a.m.	

## User Management

### Adding students and coaches

Students and coaches are the two other user types that KA Lite supports. In order for them to be able to login, you need to create accounts for them.

### How to add a student

1. Login to KA Lite
2. Click on Add Student in the top navigation

KA LITE  
video, topic, or exercise... SEARCH ADD STUDENT ADD TEACHER ADMIN UPDATE COACH REGISTER DEVICE

Please follow the directions to register your device, so that it can synchronize with the central server.

**A free world-class education for anyone anywhere.**

**Learn by watching videos!**

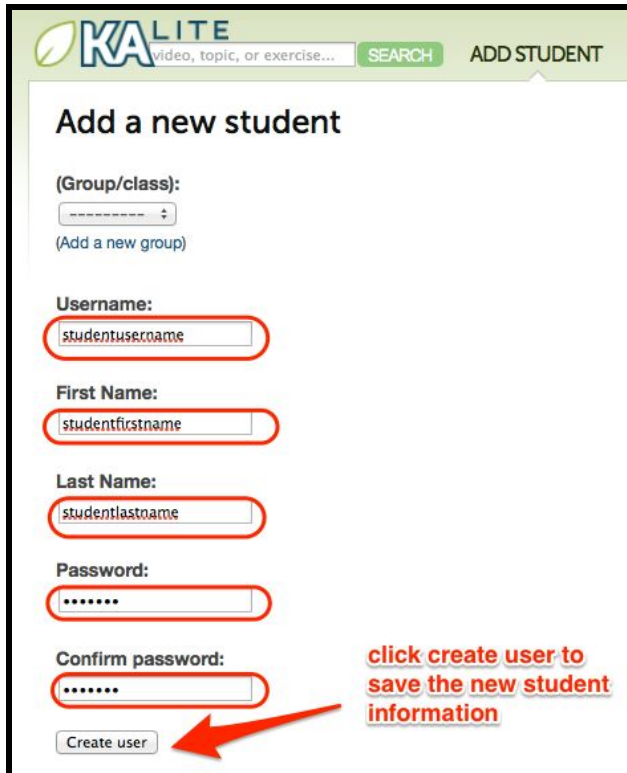
- Math
- Science
- Economics and finance
- Humanities
- Partner content

**Learn by doing exercises!**

Practice your math skills from addition to calculus and everything in between.

KA Lite is a light-weight web server for viewing and interacting with core Khan Academy content (videos and exercises) without needing an Internet connection.

- Fill in all the information on the add a new student page. Be sure to write down the username and password on the handout under Useful Handouts!
- Click create user to save the new student information you have entered.



KA LITE  
video, topic, or exercise... SEARCH ADD STUDENT

### Add a new student

(Group/class):  
-----  
(Add a new group)

Username:  
studentusername

First Name:  
studentfirstname

Last Name:  
studentlastname

Password:  
.....

Confirm password:  
.....

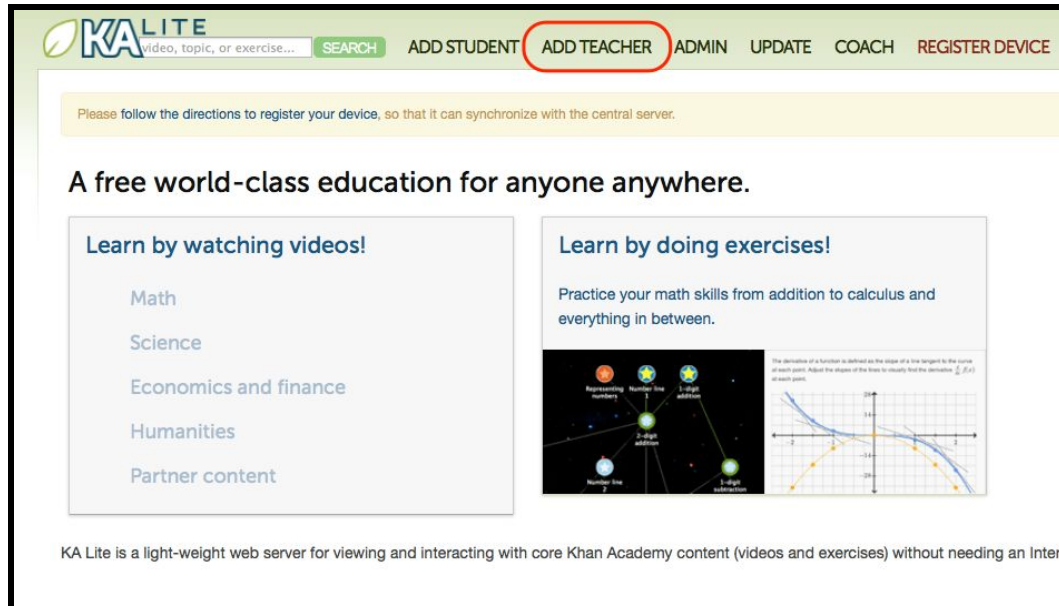
click create user to  
save the new student  
information

Create user

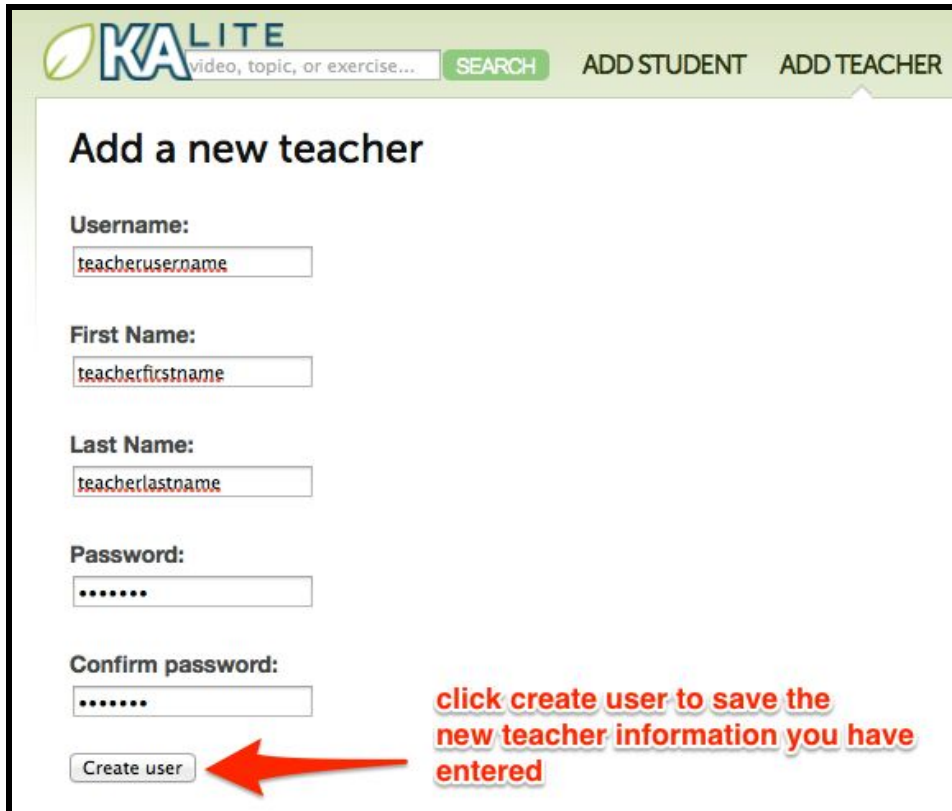
5. The page should refresh, with a new message at the top saying you have successfully created a new student account. Do not worry if the fields are empty. As long as you see the message, the account has been created.

## How to add a coach

1. Login to KA Lite
2. Click on Add Teacher in the top navigation.



3. Fill in all the information on the add a new coach page. Be sure to write down the username and password on the handout under Useful Handouts!
4. Click save user to save the new coach information you have entered.



**KA LITE** video, topic, or exercise... **SEARCH** **ADD STUDENT** **ADD TEACHER**

## Add a new teacher

**Username:**

**First Name:**

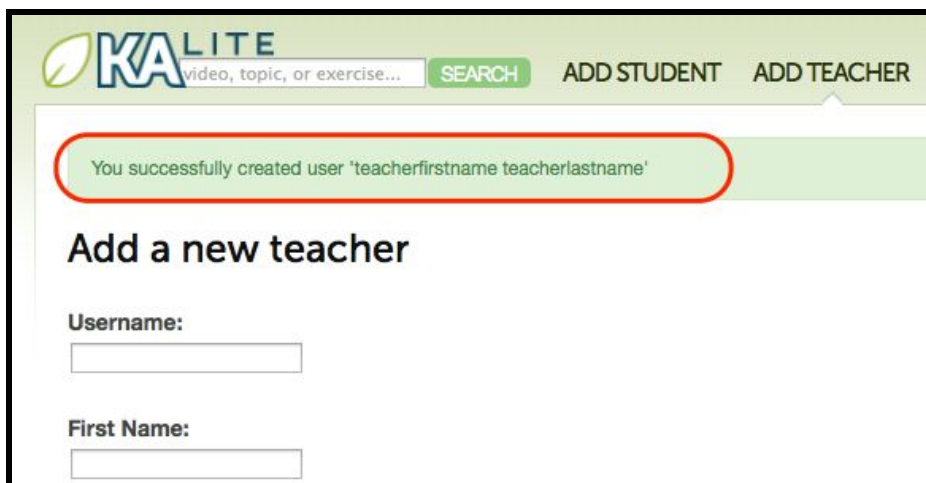
**Last Name:**

**Password:**

**Confirm password:**

**click create user to save the new teacher information you have entered**

5. The page should refresh, with a new message at the top saying you have successfully created a new coach account. Do not worry if the fields are empty. As long as you see the message, the account has been created.



**KA LITE** video, topic, or exercise... **SEARCH** **ADD STUDENT** **ADD TEACHER**

You successfully created user 'teacherfirstname teacherlastname'

## Add a new teacher

**Username:**

**First Name:**

## Adding a Group

1. Click the Users link in the top navigation of KA Lite.
2. Click on the blue addition sign next to “Student Groups” to add a new group.



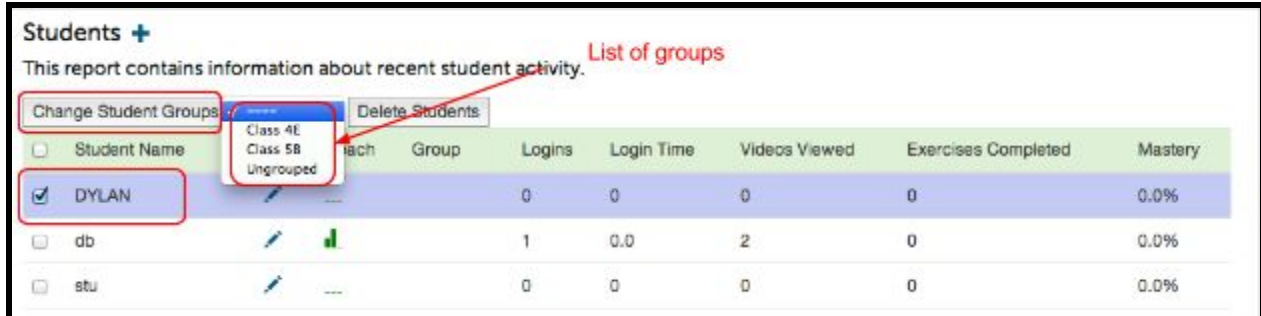
3. Fill in the empty name field with the name of your new group and then click create group.



4. Once you have successfully created your group, you will be brought to the add a new student page. At the top where it says Group/Class, you will find the name of the new group you created.

## Moving a User to a New Group

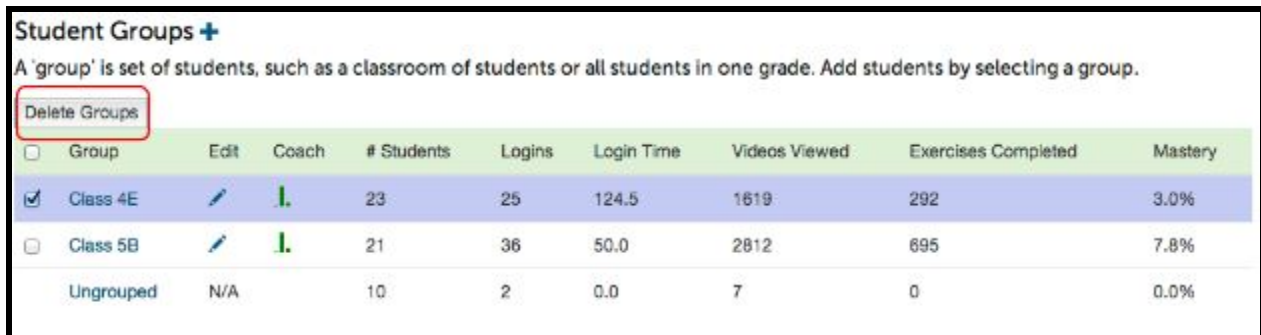
On the user list page, select both the user(s) you want to move and the name of the new group you want to move that user(s).



The screenshot shows the 'Students' page with a table of student activity. A red box highlights the 'Change Student Groups' button. A red arrow points to the dropdown menu that appears when the button is clicked, showing a 'List of groups' with options: 'Class 4E', 'Class 5B', and 'Ungrouped'. The table below has columns: Student Name, Coach, Group, Logins, Login Time, Videos Viewed, Exercises Completed, and Mastery. The first row is for 'DYLAN' with 0 logins, 0 login time, 0 videos viewed, 0 exercises completed, and 0.0% mastery. The second row is for 'db' with 1 login, 0.0 login time, 2 videos viewed, 0 exercises completed, and 0.0% mastery. The third row is for 'stu' with 0 logins, 0 login time, 0 videos viewed, 0 exercises completed, and 0.0% mastery.

1. Finally, Click Change Student Groups and your user(s) will be moved to the group you selected.
2. If you want to remove a user from any group, move the user to “ungrouped”

## Deleting Groups



The screenshot shows the 'Student Groups' page with a table of student groups. A red box highlights the 'Delete Groups' button. The table below has columns: Group, Edit, Coach, # Students, Logins, Login Time, Videos Viewed, Exercises Completed, and Mastery. The first row is for 'Class 4E' with 23 students, 25 logins, 124.5 login time, 1619 videos viewed, 292 exercises completed, and 3.0% mastery. The second row is for 'Class 5B' with 21 students, 36 logins, 50.0 login time, 2812 videos viewed, 695 exercises completed, and 7.8% mastery. The third row is for 'Ungrouped' with 10 students, 2 logins, 0.0 login time, 7 videos viewed, 0 exercises completed, and 0.0% mastery.

1. Login as administrator
2. Go to the “Users” tab in the Navbar
3. Go to Student Groups and select the groups you wish to be deleted with checkboxes or dragging
4. Click “delete groups”

## Group Summary Statistics

1. Navigate to the Student Groups Section and click on the group name that you would like to select
2. The statistics for that group will show at the top of the page

A 'group' is set of students, such as a classroom of students or all students in one grade. Add students by selecting a group.

Delete Groups

<input type="checkbox"/>	Group	Edit	Coach	# Students	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input type="checkbox"/>	Class 4E			23	25	124.5	1619	292	3.0%
<input type="checkbox"/>	Class 5B			21	35	50.0	2812	695	7.8%

# Students 23  
Logins 25  
Login Time 124.5  
Videos Viewed 1619  
Exercises Completed 292  
Mastery 3.0%

**Students +**

This report contains information about recent student activity.

Change Student Groups ----- : Delete Students

<input type="checkbox"/>	Student Name	Edit	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input type="checkbox"/>	Aiyer, Abhi			Class 4E	1	73.7	0	5	1.2%

## Removing Users From a Group

To remove users from a group:

1. On the user list page, select both the user(s) you want to move and “ungrouped” to remove the user from any group.

Students +

This report contains information about recent student activity.

Change Student Groups Class 4E Class 5B Ungrouped Delete Students

Student Name	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input checked="" type="checkbox"/> DYLAN			0	0	0	0	0.0%
<input type="checkbox"/> db			1	0.0	2	0	0.0%
<input type="checkbox"/> stu			0	0	0	0	0.0%

## Permanently Deleting Users

1. Click the User link in the top navigation of KA Lite.
2. Navigate to the “Students” section of the page.
3. Select a user or users to delete with checkboxes or dragging.
4. Click “Delete Students”

Students +

This report contains information about recent student activity.

Change Student Groups ----- Delete Students

Student Name	Edit	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input checked="" type="checkbox"/> DYLAN				0	0	0	0	0.0%
<input checked="" type="checkbox"/> db				1	0.0	2	0	0.0%
<input type="checkbox"/> stu				0	0	0	0	0.0%

## Edit User Information

1. Click the Users link in the top navigation of KA Lite.
2. Navigate to the “Students” section of the page
3. Click the blue pencil corresponding to the user that you want to change

**Students +**

This report contains information about recent student activity.

Change Student Groups: ----- : Delete Students

<input type="checkbox"/>	Student Name	Edit	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input type="checkbox"/>	DYLAN		---		0	0	0	0	0.0%
<input type="checkbox"/>	db				1	0.0	2	0	0.0%
<input type="checkbox"/>	stu		---		0	0	0	0	0.0%
<input type="checkbox"/>	student				1	0.0	4	0	0.0%
<input type="checkbox"/>	Alyer, Abhi			Class 4E	1	73.7	0	5	1.2%
<input type="checkbox"/>	Awolowo, Alison		---	Class 5B	0	0	0	0	0.0%
<input type="checkbox"/>	Boyle, Ben			Class 5D	6	6.6	426	131	30.8%

4. Make all necessary changes on the edit user page, and click Update user.

**KA LITE** video, topic, or exercise... **SEARCH**

### Edit user demostudent

(Group/class):  
-----  
(Add a new group)

**Username:**  
demostudent

**First Name:**  
demo

**Last Name:**  
student

**Password:**  
\_\_\_\_\_

**Confirm password:**  
\_\_\_\_\_

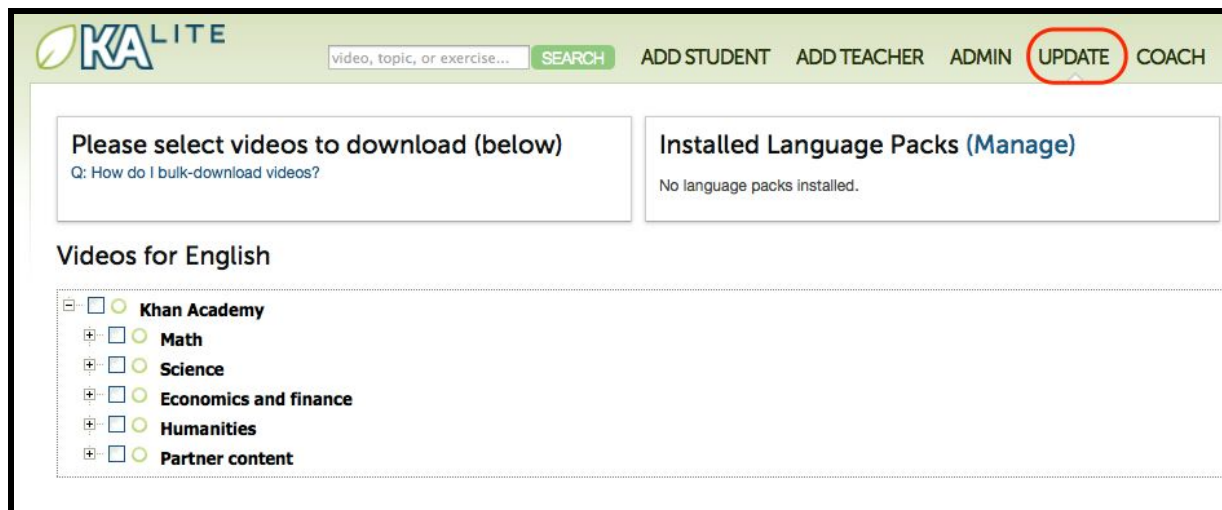
**Update user**

*click to update user information*

## Downloading Videos

Now that you've created a facility and user accounts, it's time to add content video content to your local KA Lite installation! Because the videos take up quite a bit of space, we give you the option to only download those that you need. If you think you will want all of the videos and your device has enough space, we recommend skipping to *"Downloading Videos in Bulk"* located in the "Advanced Administration" section. To download individual videos:

1. Click the Update link in the top navigation.



2. Select the video(s) you want to download, by selecting the areas of interest from the organizational tree. You can open up the tree by clicking on the plus symbol to the left of each topic (or close it by clicking on the minus symbol).

KA LITE

video, topic, or exercise... **SEARCH** **ADD STUDENT** **ADD TEACHER** **ADMIN** **UPDATE** **COACH**

**Download 1 new selected video(s) (13.4 MB)**

**Installed Language Packs (Manage)**  
No language packs installed.

**Videos for English**

**Khan Academy**

**Math**

**Arithmetic and algebra**

**Addition and subtraction**

☐ Intro to addition and subtraction

☐ Two digit addition and subtraction

☐ Addition with carrying

☐ Subtraction with borrowing (regrouping)

☒ **Addition and subtraction word problems**

☒ Subtraction word problem

**Multiplication and division**

**Factors and multiples**

**Negative numbers and absolute value**

**Decimals**

**Fractions**

**Ratios, proportions, units and rates**

**Applying mathematical reasoning**

**Exponents, radicals, and scientific notation**

**Arithmetic properties**

**Telling time**

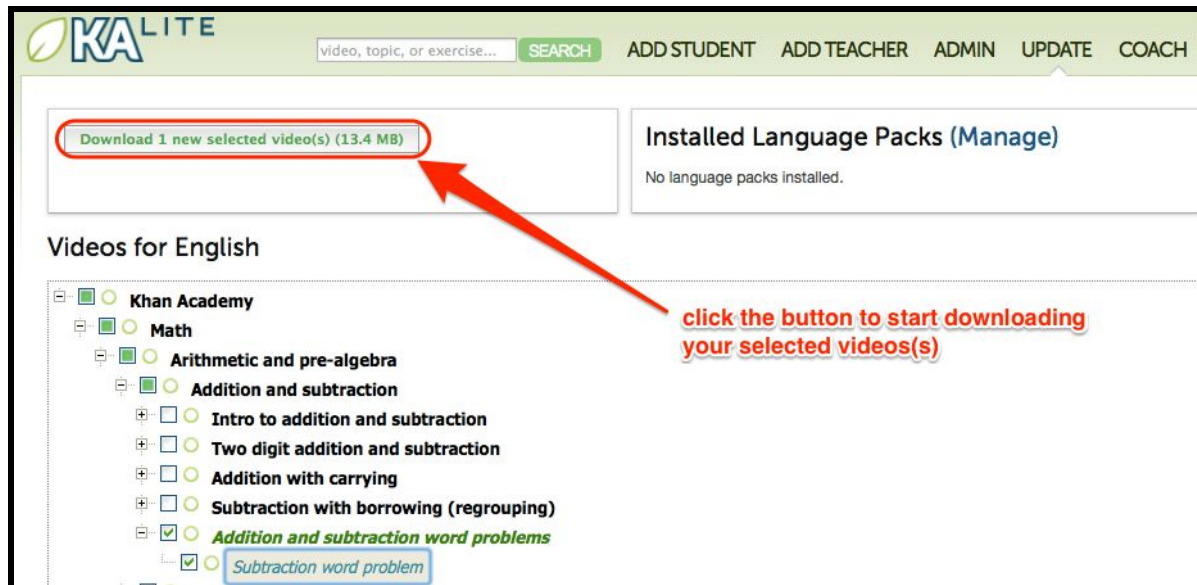
**Measurement**

**click the - sign to collapse the subcategories and videos**

**select the video(s) you want to download**

**click the + sign to expand and see subcategories and more videos**

- The number of videos left to download for that topic will appear at the top left of the screen after you select one or more boxes. (The number of videos already downloaded on the selected topic(s) will also be shown on the “delete \_\_ selected videos”. NOTE: Please don’t click this button unless you need to free up space on your server computer)
- Click the download button in the top left box of the update page, to start the download process. Depending on the number of videos and the strength of the current internet connection, this may take quite a lot of time. It’s better to download in smaller groups to get access to the content sooner.



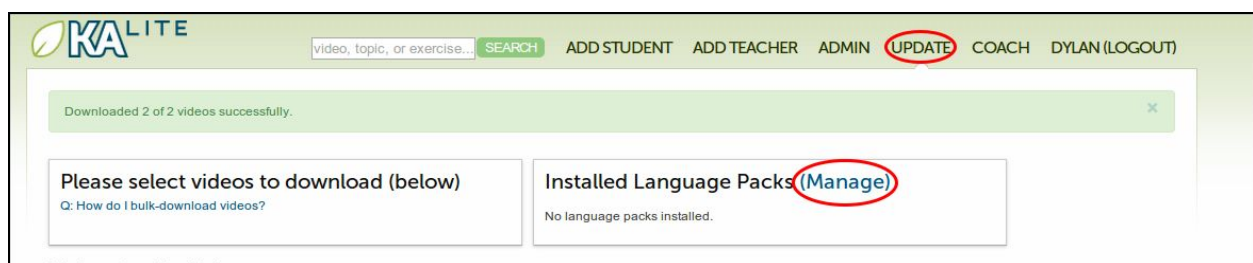
5. Once the download is completed, the video is ready for your students to watch!

## Downloading Language Packs

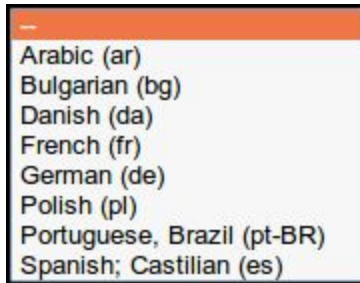
KA Lite supports internationalization, and you can download language packs for your language if it is available. A language pack comes with all the available subtitles and user interface translations for that language, and when it is installed, KA Lite will give you the option to download individual dubbed videos from the language's Khan Academy YouTube channel.

To download language packs:

1. From the "Update" page, click "Manage" in the Language Packs box.



2. Select your desired language from the list of available language packs



- Click “Get Language Pack” to start the download



- Once the download finishes, you can see your Language Pack in the list of installed language packs. Students and coaches will now be able to switch their language to any of the installed language packs. Their default will initially be the default that you can set by clicking “Set as default”.

Installed Languages			
(Default)	English (en)	- 0 Subtitles / 100% Translated	<a href="#">Upgrade</a> (+0% Translated / +4416 Subtitles / 19.17 MB)
<a href="#">(Set as default)</a>	French (fr)	- 713 Subtitles / 98% Translated	
<a href="#">(Set as default)</a>	Spanish; Castilian (es)	- 1350 Subtitles / 98% Translated	

## How to delete a language pack

1. Login as the administrator
2. Click the “Languages” link in the navbar
3. In the Installed Languages section, there is a button for deletion of each language.

Installed Languages			
(Set server default)	Arabic (ar)	- 1313 Subtitles / 97% Translated	<a href="#">Upgrade</a> (+-93% Translated / +24 Subtitles / 6.50 MB)
(Set server default)	Bulgarian (bg)	- 1341 Subtitles / 97% Translated	
(Set server default)	Danish (da)	- 938 Subtitles / 97% Translated	<a href="#">Upgrade</a> (+0% Translated / +36 Subtitles / 4.11 MB)
(Default)	English (en)	- 0 Subtitles / 100% Translated	<a href="#">Upgrade</a> (+0% Translated / +4419 Subtitles / 19.20 MB)
(Set server default)	French (fr)	- 727 Subtitles / 98% Translated	
(Set server default)	German (de)	- 613 Subtitles / 96% Translated	<a href="#">Upgrade</a> (+-50% Translated / +5 Subtitles / 3.81 MB)
(Set server default)	Polish (pl)	- 1460 Subtitles / 42% Translated	<a href="#">Upgrade</a> (+56% Translated / +121 Subtitles / 7.60 MB)
(Set server default)	Portuguese, Brazil (pt-BR)	- 455 Subtitles / 94% Translated	
		<a href="#">Upgrade</a> (+0% Translated / +24 Subtitles / 3.31 MB)	
(Set server default)	Spanish; Castilian (es)	- 1346 Subtitles / 98% Translated	

## Students

### Who is a “student”?

A student is anyone who uses KA Lite primarily for learning. Student accounts will track progress through videos and exercises, and students will only be allowed to view their own data.

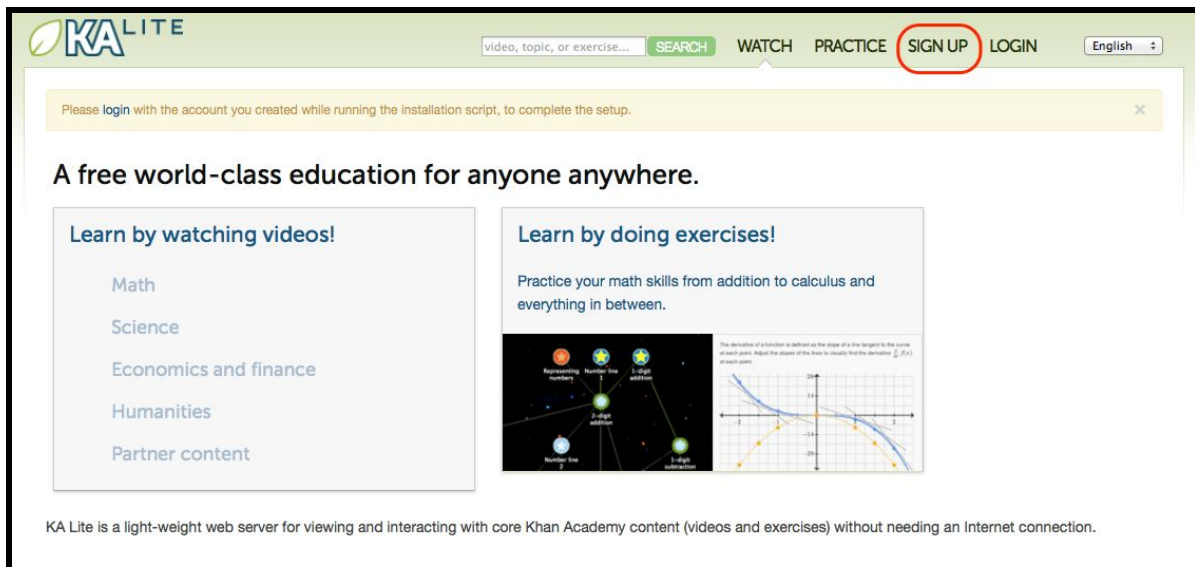
### What can a student do in KA Lite?

KA Lite allows students to interact with Khan Academy content by watching videos and doing exercises from a range of educational topics. Students can sign up for accounts. If students are logged in, they will earn points while watching videos and doing exercises, and track their progress in completing videos and mastering exercises.


### How can students get an account?

Students may receive their account information from their Coaches or Administrators if their account has been preconfigured. However, it is possible for students to create their own account. To create an account:

1. Open KA Lite.
2. Click the Sign Up link on the top navigation of the KA Lite home page.



3. Fill in the information on the “sign up for an account” page.
4. Click create user to finish creating an account.



## Sign up for an account

**Username:**

**First Name:**


**Last Name:**

**Password:**

**Confirm password:**

**click create user to create account**

- After you have successfully created your account, the page will refresh to your account management page, and you will see a successful login message.



video, topic, or exercise...  WATCH PRACTICE DEMO STUDENT LOGOUT English

You've been logged in! We hope you enjoy your time with KA Lite -- be sure to log out when you finish.

Account management page for demo student

Welcome to KA Lite! Please return to this page after watching videos or practicing exercises.

## How can students log in?

Students can log in to earn points and track their progress in completing videos and mastering exercises. To log in, students must:

- Open KA Lite

To open KA Lite:

- Open up your Internet browser. In the address bar of your browser, enter the IP

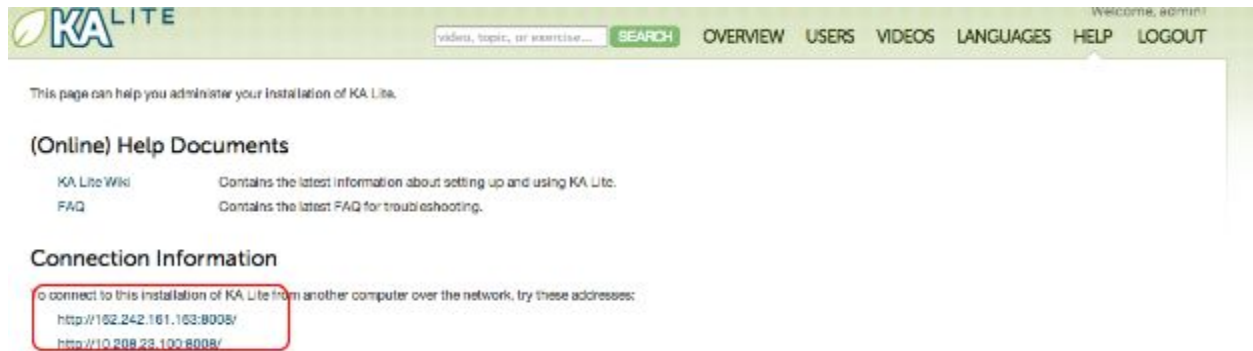
address of the KA Lite server followed by ':8008' (ex: <http://127.0.0.1:8008/>).  
Your browser will load up the KA Lite homepage.

- To find your IP address:
- if you are running KA Lite on your own computer enter 127.0.0.1:8008 in the address bar.
- if you are accessing KA Lite on a network, ask your project administrator for the IP address of the server.

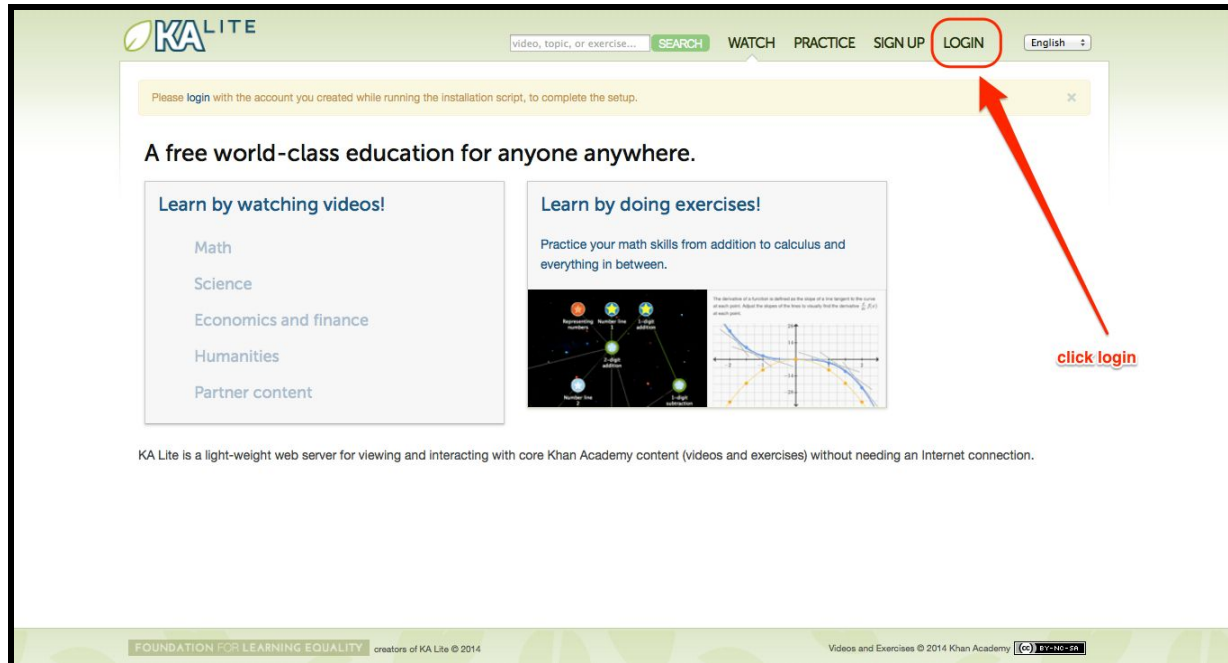
## Administrators: How to find your IP address:

From the admin page, you will be able to see the IP address for the KA Lite server that other computers can connect to:

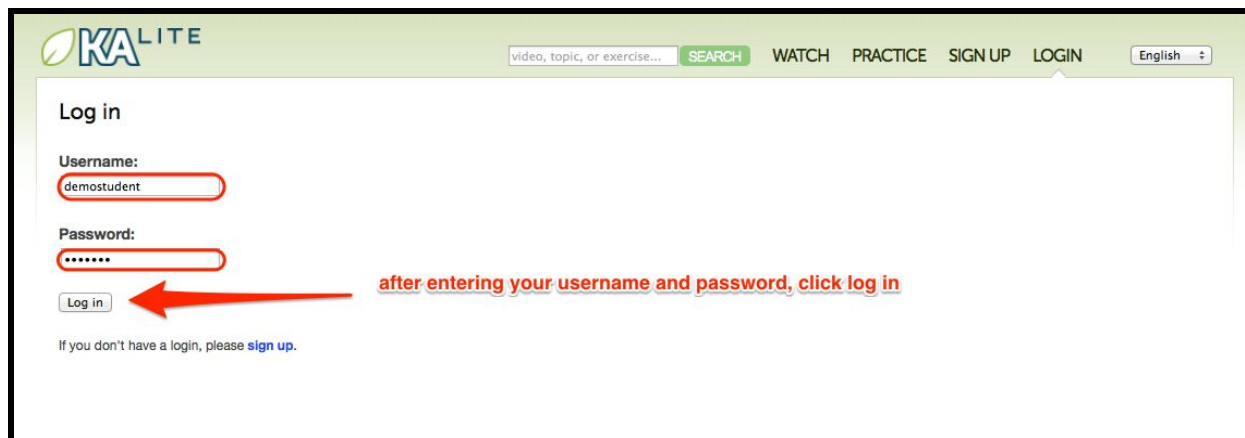
1. Click "Help" in the Navbar and your IP Address will show up under "Connection Information"



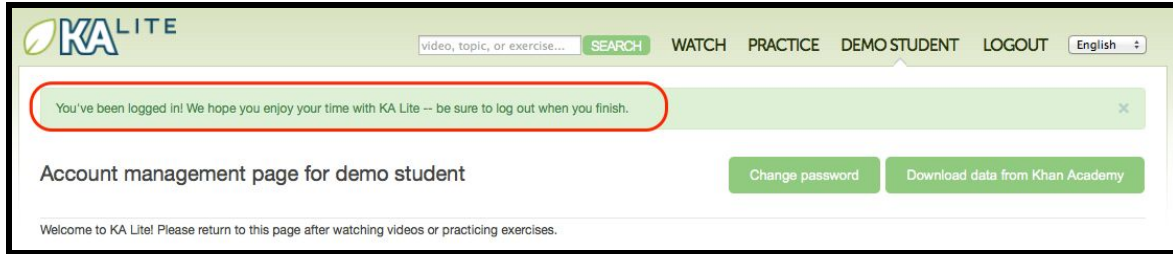
2. Once you are on the KA Lite homepage, click on the login link on the top right corner of the main navigation.



3. Enter your Username and Password and click on the 'Login' button. Your username and password should have been provided to you by your coach or system administrator. If you haven't been provided one, you'll need to get one from your coach or admin.



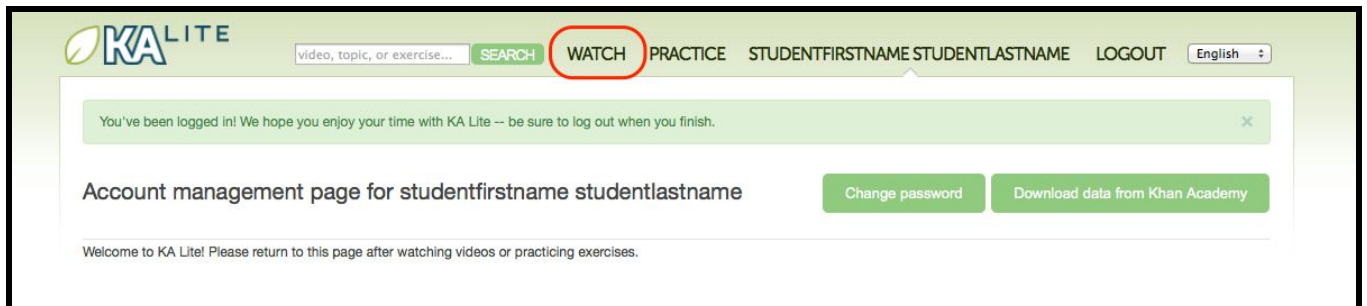
4. After you successfully login, you will be brought to your account management page and see a successful login message at the top.



5. Congratulations! You are now logged in to KA Lite. You will be able to receive points for watching videos and track your progress in the practice problems.

## How can I watch a video?

To begin watching the Khan Academy instructional videos, first make sure you are logged in to KA Lite. Then, select WATCH in the top navigation.



On the Watch page, you will see a box underneath 'Learn by watching videos!', you can select which type of instructional video you want to watch, including 'Math', 'Science', 'Economics and Finances', and 'Humanities'. Greyed out text indicates that no videos have been downloaded for that subject area. Ask your Coach or Project Administrator if you'd like a certain video to be downloaded.

The screenshot shows the KA Lite homepage. At the top, there is a navigation bar with the KA Lite logo, a search bar, and links for WATCH, PRACTICE, and a user profile section. Below the navigation bar, the main heading reads "A free world-class education for anyone anywhere." There are two main sections: "Learn by watching videos!" and "Learn by doing exercises!". The "Learn by watching videos!" section contains a list of subjects: Math, Science, Economics and finance, Humanities, and Partner content. A red arrow points to the "Math" link. To the right of the arrow, text says "click on a subject to view more detailed topics". The "Learn by doing exercises!" section includes a description of practicing math skills and two small images: a diagram of number lines and a graph of a function.

**Learn by watching videos!**

- Math
- Science
- Economics and finance
- Humanities
- Partner content

**Learn by doing exercises!**

Practice your math skills from addition to calculus and everything in between.

KA Lite is a light-weight web server for viewing and interacting with core Khan Academy content (videos and exercises) without needing an Internet connection.

Upon selecting a category, it will bring you to subcategories.

The screenshot shows the KA Lite 'Math' subcategory page. The navigation bar is the same as the homepage. The main heading is "Math". Below it, there is a list of subtopics: Arithmetic and pre-algebra, Algebra, Geometry, Trigonometry and precalculus, Calculus, Probability and statistics, Differential equations, Linear algebra, Applied math, Recreational math, Test prep, and Math contests. A red arrow points to the "Arithmetic and pre-algebra" link. To the right of the arrow, text says "click on a subtopic to search for a specific video".

**Math**

**Subtopics**

- Arithmetic and pre-algebra
- Algebra
- Geometry
- Trigonometry and precalculus
- Calculus
- Probability and statistics
- Differential equations
- Linear algebra
- Applied math
- Recreational math
- Test prep
- Math contests

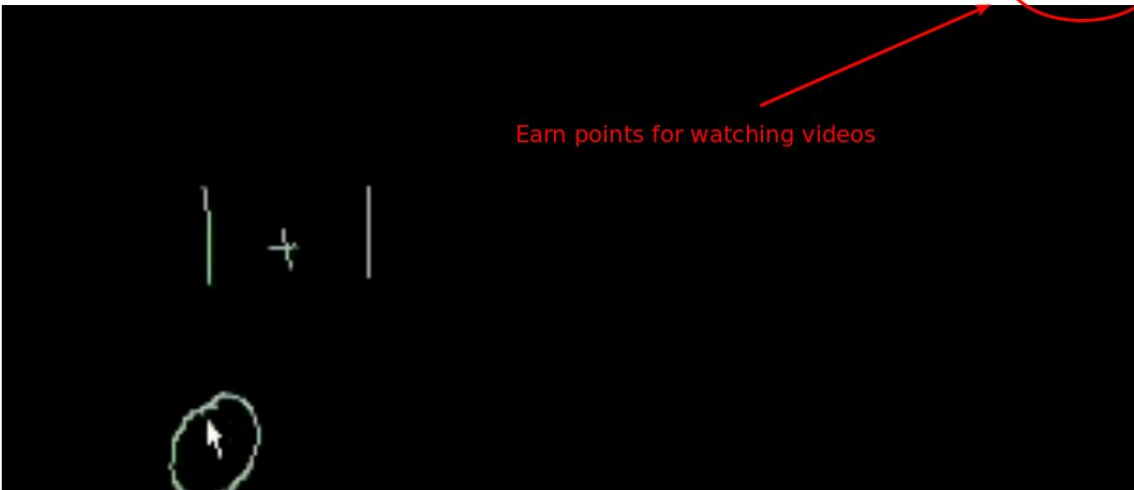
Continue through the subcategories until you find the specific video you are looking for. When you watch videos, you earn points.

**Basic addition**  
Introduction to addition. Multiple visual ways to represent addition.

[Practice this concept](#)

**Points: 54**  
[Basic subtraction >](#)

Earn points for watching videos



## How can I practice exercises?

Assuming that you have already logged into KA Lite, to practice exercises, first click on 'PRACTICE' in the top right.

**KA LITE** video, topic, or exercise... [SEARCH](#) [WATCH](#) **[PRACTICE](#)** STUDENTFIRSTNAME STUDENTLASTNAME [LOGOUT](#) [English](#)


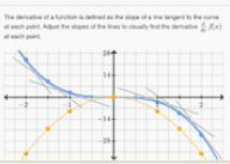
**A free world-class education for anyone anywhere.**

**Learn by watching videos!**

- Math
- Science
- Economics and finance
- Humanities
- Partner content

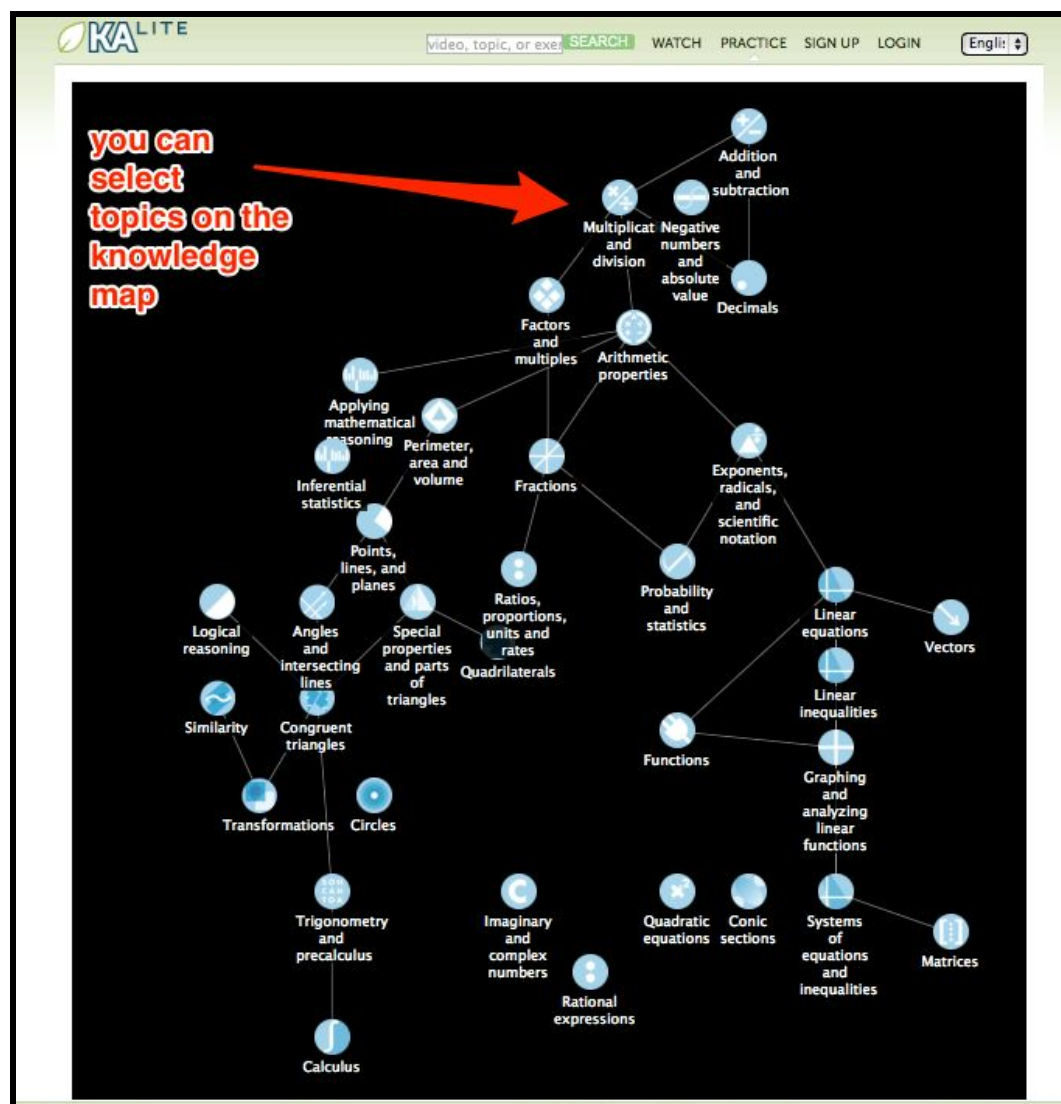
**Learn by doing exercises!**

Practice your math skills from addition to calculus and everything in between.

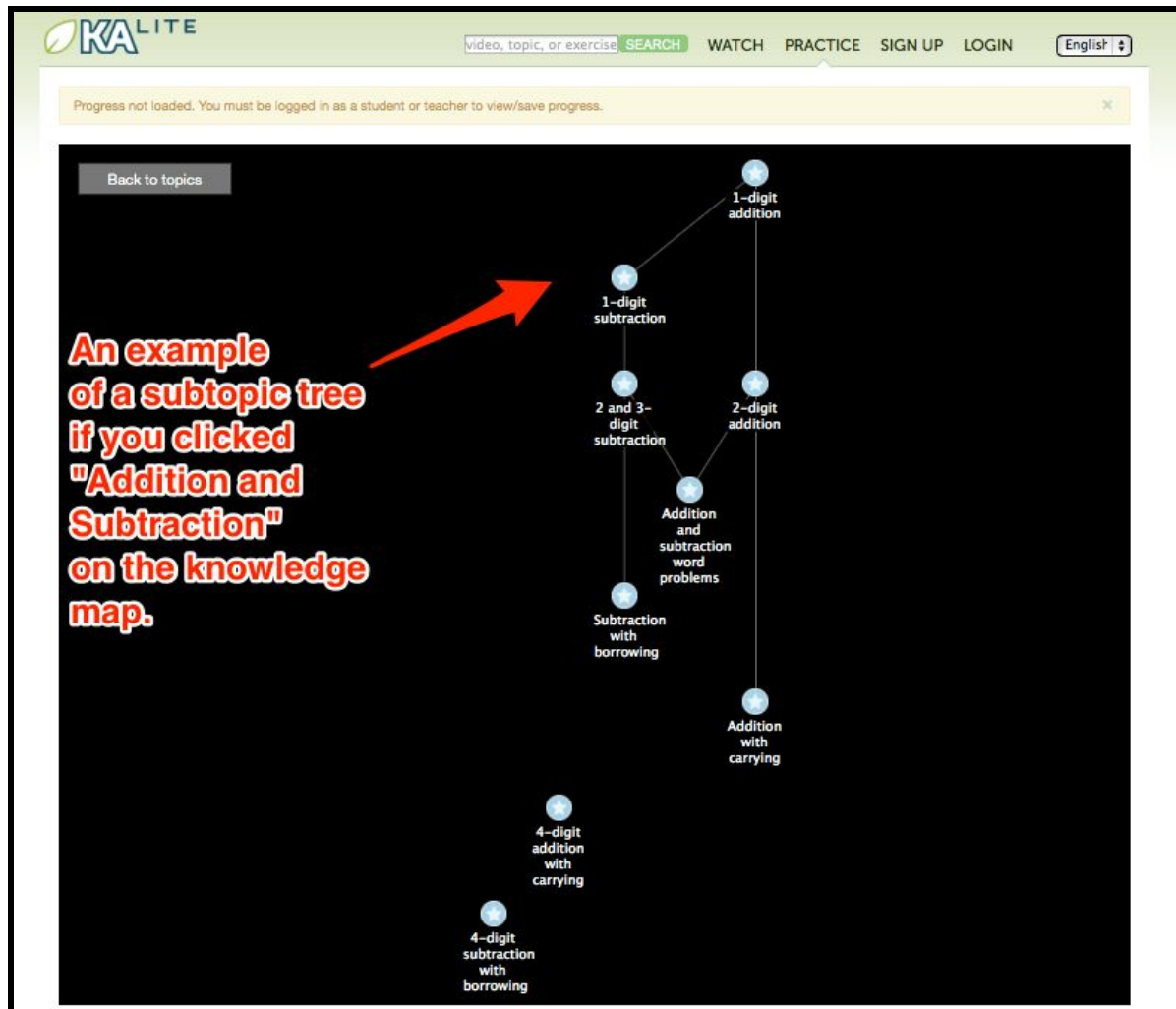



KA Lite is a light-weight web server for viewing and interacting with core Khan Academy content (videos and exercises) without needing an Internet connection.

This brings you to the knowledge map, which connects topics together to make a tree of knowledge.



Selecting the topic you wish to practice will bring you to a 'subtopic tree'. From there you can select the specific type of problem you want to practice.



To answer a question, enter the answer either in the box, or in the exercise panel, and click 'Check Answer'.

KA LITE

video, topic, or exercise... **SEARCH** WATCH **PRACTICE** SIGN UP LOGIN English

Progress not loaded. You must be logged in as a student or teacher to view/save progress.

1-digit subtraction >

### Practicing 1-digit addition

Add two numbers from 1 to 10

$3 + 4 = ?$

1. solve the problem shown here

Answer Acceptable formats

7

2. enter your answer in the text box

Check Answer

3. click here to submit and check your answer

Need help?

I'd like a hint

Note: this will reset your streak and points for this exercise!

Show scratchpad

#### *New in version 0.12.3: On-Screen Keypad*

If you are using a tablet or a mobile device, you can tap “Show Numpad” to use an on-screen keyboard to type in your answer. This prevents the need for the bulky on screen keyboard provided by most devices, helping you stay focused on getting the question right!

**Answer**
Acceptable formats

Show Keypad

Check Answer

**Need help?**

I'd like a hint

Note: this will reset your streak and points for this exercise!

**Answer**
Acceptable formats

Hide Keypad

123
456
789
/0-
.CDel

Check Answer

When you correctly answer a question, you will receive points. The harder the exercise you are answering questions for, the more points you will get for each correct answer. Sometimes you will get bonus points for a correct answer!

KA LITE

video, topic, or exercise... **SEARCH** WATCH PRACTICE SIGN UP LOGIN English

1-digit subtraction >

### Practicing 1-digit addition

Add two numbers from 1 to 10

$$3 + 4 = ?$$

10

**Answer** Acceptable formats

10 points!

7

Correct! Next Question...

Show hints (3 available)

progress bar tracks how many points you have earned

click to move on to the next question

Show scratchpad

When practicing the exercises, after 10 correct answers in a row, your points for the exercise will be added to your total and you will have mastered the exercise, and may work on other exercises or watch other videos.

If you get an answer wrong or ask for a hint, your 'streak' will reset, and all the points you have earned for this exercise will be lost.

KA LITE

video, topic, or exercise... **SEARCH** **WATCH** **PRACTICE** **SIGN UP** **LOGIN** English

1-digit subtraction >

### Practicing 1-digit addition

Add two numbers from 1 to 10

$10 + 9 = ?$

Show scratchpad

95

**Answer** Acceptable formats

Check Answer

**Need help?**

I'd like a hint

Note: this will reset your streak and points for this exercise!

this will be reset to 0 if you click the hint button

click here if you need a hint to solve the problem

If you are having trouble, you can click on 'I'd like a hint'. However, your 'streak' will reset, and all the points you have earned for this exercise will be lost.

The screenshot shows the KA Lite interface for practicing 1-digit addition. The main area displays the equation  $6 + 4 = ?$  with 6 blue dots and 4 green dots. Below the dots, it says: "There are 6 blue dots. There are 4 green dots. There are a total of 10 dots." A red arrow points to the dots with the text "hints appear here". To the right, there is a progress bar at the top, an "Answer" input field, a "Check Answer" button, and a "Need help?" section with a button that says "I'd like another hint (0 hints left)". A red arrow points to the progress bar with the text "progress bar shows that you go back to 0 when you click for hints". Another red arrow points to the "Need help?" section with the text "you have 3 different hints available". At the bottom left, there is a "Show scratchpad" link.

You can watch any related videos to refresh your memory of the topic.

The screenshot shows the KA Lite interface for practicing 1-digit addition. The main area displays the equation  $5 + 3 = ?$ . To the right, there is an "Answer" input field, a "Check Answer" button, and a "Need help?" section with a button that says "I'd like a hint". Below the "Need help?" section, there is a "Stuck? Watch a video." section with a video player. A red arrow points to the video player with the text "click to watch related video". The video player shows a thumbnail for a video titled "Basic addition".

If you are already in a video, you can quickly get to the correct exercise by choosing 'Practice

this concept'.

KA LITE

video, topic, or exercise... **SEARCH** OVERVIEW USERS VIDEOS LANGUAGES HELP (LOGOUT)

Plotting (x,y) relationships  
Plotting (x,y) relationships

**click to practice exercises related to the video content** → **Practice this concept**

< Determining a linear equation by trying out values from a table Graphs of linear equations >

Create a graph of the linear equation  $5x + 2y = 20$ .

$$\begin{array}{r}
 5x + 2y = 20 \\
 -5x \qquad -5x \\
 \hline
 2y = 20 - 5x \\
 \frac{2y}{2} = \frac{20 - 5x}{2} \\
 y = 10 - \frac{5}{2}x
 \end{array}$$

x	y
0	$y = 10 - \frac{5}{2}(0) = 10$

(0, 10)

khanacademy.org

## How can I view my progress?

To view your own progress in the education material, select your name in the top right.

KA LITE

video, topic, or exercise... **SEARCH** WATCH PRACTICE **DEMO STUDENT** LOGOUT English

Total Points : 326

A free world-class education for anyone anywhere.

**Learn by watching videos!**

- Math
- Science
- Economics and finance
- Humanities
- Partner content

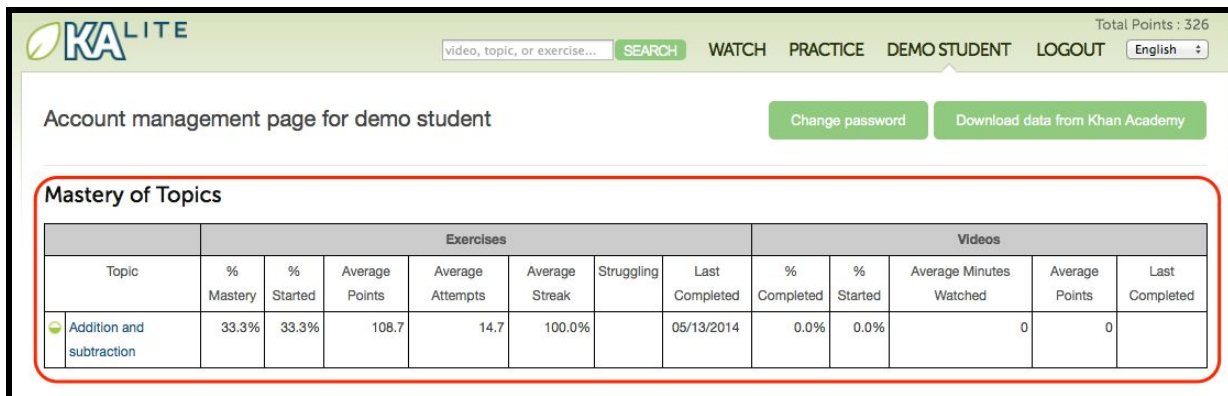
**Learn by doing exercises!**

Practice your math skills from addition to calculus and everything in between.

**click to view current progress** →

KA Lite is a light-weight web server for viewing and interacting with core Khan Academy content (videos and exercises) without needing an Internet connection.

On the page that comes up there is a table containing all the information regarding the work you have done in KA Lite.



Account management page for demo student

Change password Download data from Khan Academy

**Mastery of Topics**

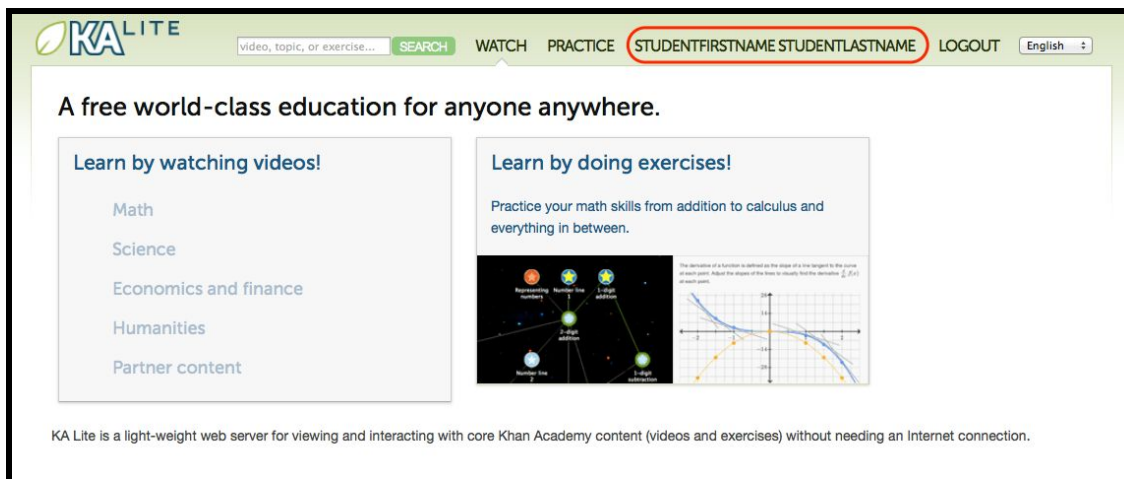
Topic	Exercises							Videos				
	% Mastery	% Started	Average Points	Average Attempts	Average Streak	Struggling	Last Completed	% Completed	% Started	Average Minutes Watched	Average Points	Last Completed
Addition and subtraction	33.3%	33.3%	108.7	14.7	100.0%		05/13/2014	0.0%	0.0%	0	0	

On the far left of the table, the topic you have worked in is listed. Following the topic is information regarding the mastery of the exercises, the completion of the videos, and other statistics that might be of importance to you.

## How can I update my account information?

To update your account information, you must:

1. First login to KA Lite, with your username and password.
2. Once you have logged in successfully, click on your name, which should appear in the top navigation of the page.



KA LITE

video, topic, or exercise... SEARCH WATCH PRACTICE **STUDENTFIRSTNAME STUDENTLASTNAME** LOGOUT English

A free world-class education for anyone anywhere.

**Learn by watching videos!**

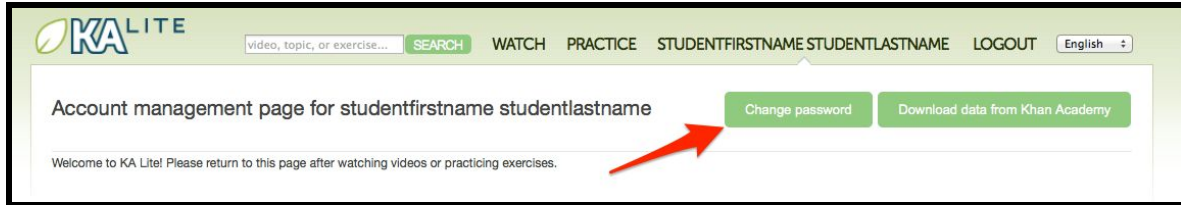
- Math
- Science
- Economics and finance
- Humanities
- Partner content

**Learn by doing exercises!**

Practice your math skills from addition to calculus and everything in between.

KA Lite is a light-weight web server for viewing and interacting with core Khan Academy content (videos and exercises) without needing an Internet connection.

3. You will be brought to an account management page where you will see two buttons. A change password button and a download data from Khan Academy button.
4. Click on the change password button to update or edit your username and password information.



5. Click update user to save the account information you have changed.

## Coaches

### Who is a “coach”?

Coaches are users who add, manage, and track the progress of groups of students. They have access to student progress data in the form of coach reports, and can step in and provide individualized instruction when the student needs it.

### How can coaches use KA Lite?

Coaches can use KA Lite to track the progress of their students as they interact with the educational resources. The Reporting tools give coaches the necessary information to track their students' progress.

## Coach Reports - What are they?

Coach reports are visualizations of the data generated by your students. The goal of the coach reports is to put the data into an easy to understand format, so you can understand how your students are progressing and where they need the most help.

The Report Page displays three types of reports. Coaches may change groups and facilities anytime in order to track different sections.

The screenshot shows the KA Lite Coach Reports page for facility UCSD (#3982). The page has a navigation bar with links: ADD STUDENT, ADD TEACHER, ADMIN, UPDATE, COACH, and a user profile section. Below the navigation bar, the page title is "Coach Reports for UCSD (#3982) / [all groups]". A red arrow points to the "[all groups]" link with the text "click to change group". Below the title, there are three report cards:

- Progress by topic:** A heatmap showing student progress across various topics. A red arrow points to the card with the text "click to view student progress by topic".
- Effort versus achievement:** A scatter plot showing the relationship between effort and achievement. A red arrow points to the card with the text "click to view student effort and achievement".
- Mastery over time:** A line graph showing mastery levels over time from February 2013 to May 2013. A red arrow points to the card with the text "click to view student mastery over time".

At the bottom of the page, there is a footer with the text "FOUNDATION FOR LEARNING EQUALITY creators of KA Lite © 2014" and "Videos and Exercises © 2014 Khan Academy".

- Clicking on the current facility will show a drop down menu of facilities that can be viewed.
- Clicking on "all groups" will show a drop down menu of groups at that facility.

## Understanding the Table Report

A table report is a grid that can show, at a high level, how students are doing in specific subjects. As a coach, you can select which group of students you'd like to check progress for, and which subset of videos or exercises you'd like to see reports on. This allows you to easily identify which students are struggling in which areas, as well as which students are doing well.

## Progress By Topic (Table Report)

1. Select “Coach Reports” from the top menu (only applies to math topics)
2. Click on Topic Progress
3. Select a topic from the drop down menu

Coach Reports for UCSD (#3982) / [all groups] (share)

Select Report  Select Topic  select a topic

Student	4-digit subtraction with borrowing	4-digit addition with carrying	1-digit subtraction	2 and 3-digit subtraction	Subtraction with borrowing	Addition and subtraction word problems	1-digit addition	2-digit addition	Addition with carrying
demo student									
example student									
studentfirstname st									

The color of the rectangles in the table indicate how that student is doing on that exercise. The following key explains the color code of the table cells:

	Not Attempted: The student has not attempted the subtopic.
	In Progress: The student has completed a few questions, but hasn't answered 10 correct in a row yet.
	Completed: The student has correctly answered 10 questions in a row.
	Struggling: The student has answered more than 20 questions, but hasn't answered 10 correct in a row yet.

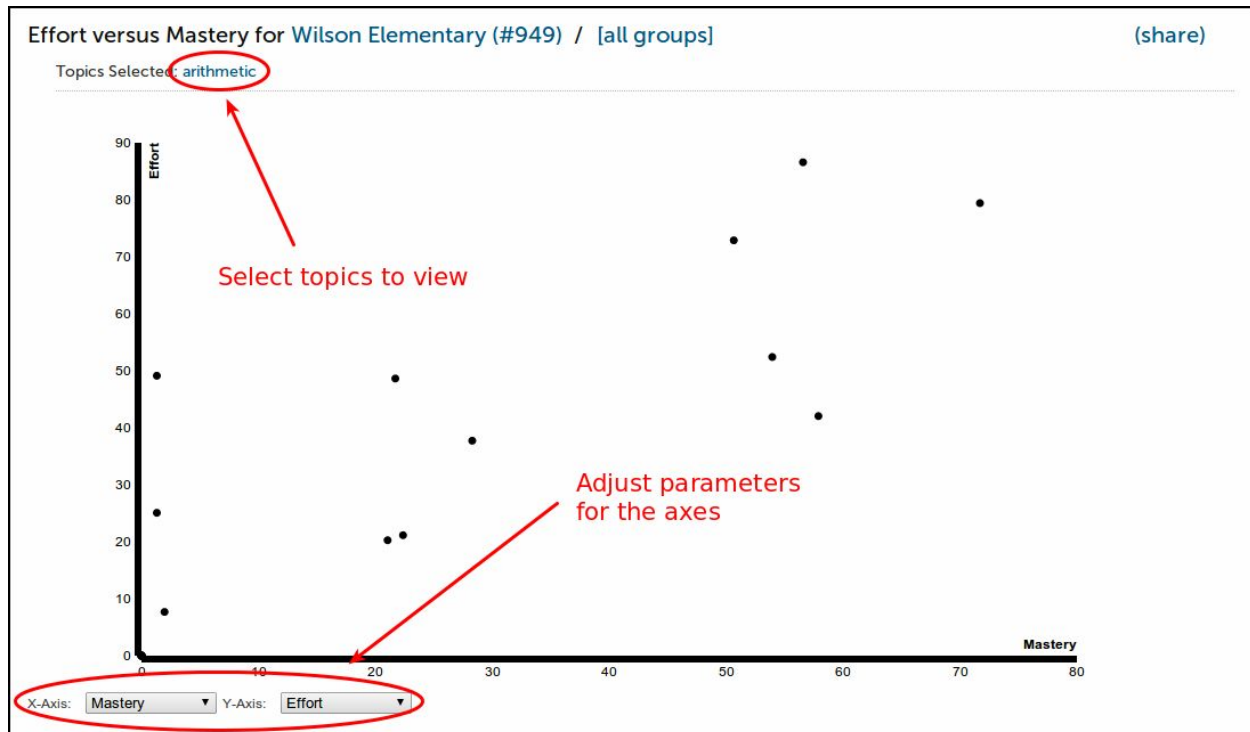
## Understanding the Scatter Plot Report

The Scatter Plot report allows coaches to plot various metrics, like student effort, against other

metrics, like students mastery. This helps coaches view data, and identify high-level trends in their students progress.

## Effort Versus Achievement (Scatter Plot Report)

1. Click on Effort versus Achievement
2. Select a topic
3. Select the parameters for the X & Y axes

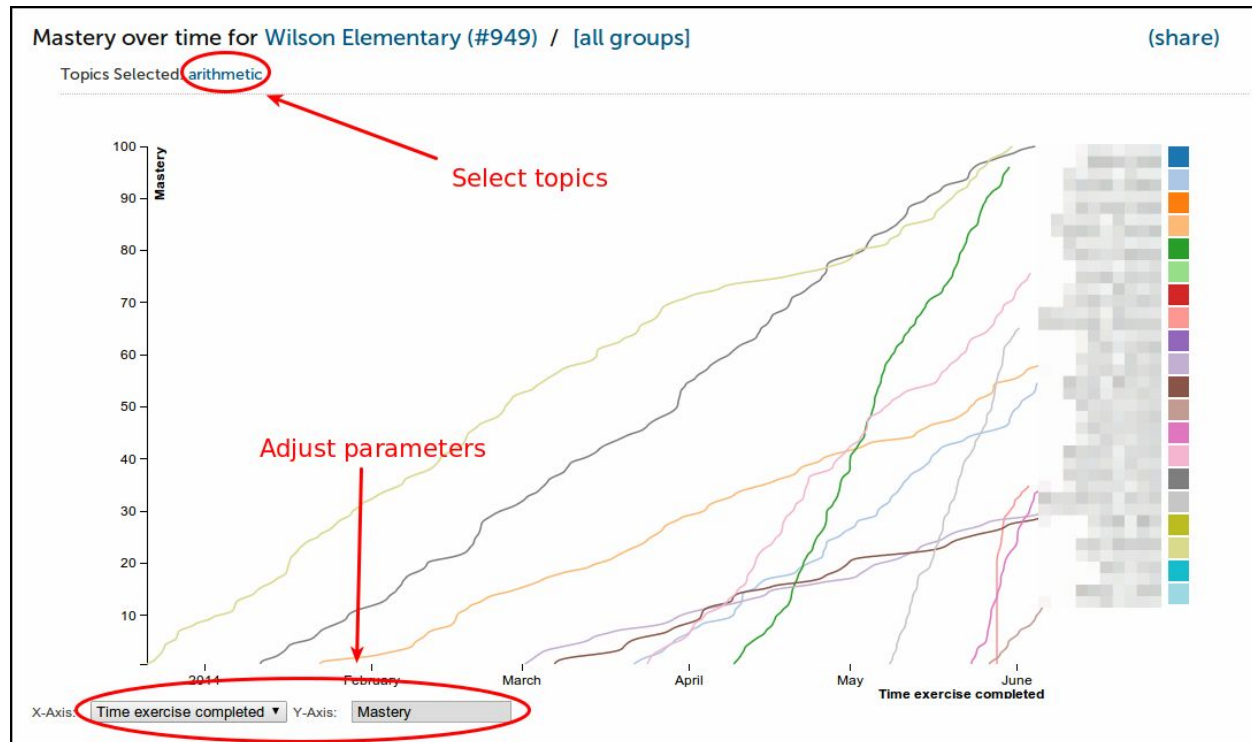


## Understanding the Timeline Report

The Timeline Report allows coaches to track individual students' mastery of subjects over time. This is a helpful way to view student progress, and helps with identifying struggling students in relation to their peers.

## Mastery Over Time (Timeline Report)

1. Click on Mastery over Time
2. Select a topic
3. Select a parameter for the Y-axis



## Advanced Admin

### Downloading Videos in Bulk

If you want to download videos in bulk, your best option is to download the KA Lite Videos via [BitTorrent Sync](#). This will be a much faster process than using the KA Lite app to download all of the videos.

We have made the full set of KA videos (in the format needed by KA Lite) available via [BitTorrent Sync \(btsync\)](#) (note that this is different from BitTorrent; btsync allows us to add new videos or fix problems without issuing a whole new torrent file and then having seeders split between the old and new torrent files) Here are the steps to set this up:

1. [Download and install BitTorrent Sync](#)
2. Run btsync. On some platforms, this will bring up a graphical interface. On Linux, you will need to load <http://127.0.0.1:8888/> to get the interface.
3. Click the "Enter a key or link" button, and put in (see \* below for old versions of btsync):  
**<https://link.getsync.com/#f=ka-lite-compressed&sz=25E9&q=-&s=TOQVB3LLGWC KEQ6NOCFBSEVWA74PRA6I&q=-&i=C4M3QMAVXE7RVXR7B3526TBD5V3KYV5V>**

**6&q=-&p=CCGAGLIJGFQFP2X2Z4QWQ3MLPJHTVV3A**

and then select the "content" folder inside your KA Lite installation as the "location" (unless you want the videos going somewhere else).

4. Allow the videos to sync in there from your peers! It may take a while for now, as we don't yet have many seeders on it. On that note -- **please help seed by keeping it running even after you've got all the videos** , if you have the bandwidth to spare! This will make it easier for others to download the content as well.

Please note that these are resized videos. All in all, this will take around 23GB of space.

\*If you are running an old version of btsync, prior to version 1.4, you can use the secret "BT7AOITNAIP3X3CSLE2EPQJFXJXMVVGQI". But we recommend you install the latest version and use the instructions above.

If you chose to download them to somewhere other than the content folder inside the ka-lite folder, you need to tell KA Lite where to find them:

1. Make sure all video files are located in a single directory, with .mp4 extensions (KA Lite expects this!)
2. Create a file local\_settings.py in the ka-lite/kalite folder (the one containing settings.py), if it doesn't already exist.
3. add the line `CONTENT_ROOT="[full path to your videos directory]"`, making SURE to include an OS-specific slash at the end (see examples) and encapsulate it in quotes (this makes it a string)
  - a. e.g. on Windows: `CONTENT_ROOT="C:\\torrented_videos_location\\"`
  - b. e.g. on Linux: `CONTENT_ROOT="/home/me/torrented_videos_location/"`
4. Restart your server.

## User Management Tools

The user management tools on the admin page make it easy to organize users into specific groups, edit user information, and delete users.

## Adding a Group

5. Click the Users link in the top navigation of KA Lite.
6. Click on the blue addition sign next to "Student Groups" to add a new group.

**Student Groups +**

A 'group' is set of students, such as a classroom of students or all students in one grade. Add students by selecting a group.

Delete Groups

Group	Edit	Coach	# Students	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
Class 4E			23	25	124.5	1619	292	3.0%

- Fill in the empty name field with the name of your new group and then click create group.

**KA LITE**

video, topic, or exercise... **SEARCH** **OVERVIEW** **USERS** **VIDEOS** **LANGUAGES** **HELP** **LOGOUT**

**Add a new group**

Name:

Create group

- Once you have successfully created your group, you will be brought to the add a new student page. At the top where it says Group/Class, you will find the name of the new group you created.

## Moving a User to a New Group

On the user list page, select both the user(s) you want to move and the name of the new group you want to move that user(s).

**Students +**

This report contains information about recent student activity.

Change Student Groups **List of groups** Delete Students

Student Name	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input checked="" type="checkbox"/> DYLAN		Class 4E	0	0	0	0	0.0%
<input type="checkbox"/> db		Class 5B	1	0.0	2	0	0.0%
<input type="checkbox"/> stu		Ungrouped	0	0	0	0	0.0%

- Finally, Click Change Student Groups and your user(s) will be moved to the group you selected.
- If you want to remove a user from any group, move the user to "ungrouped"

## Deleting Groups

**Student Groups +**

A 'group' is set of students, such as a classroom of students or all students in one grade. Add students by selecting a group.

Delete Groups

<input type="checkbox"/>	Group	Edit	Coach	# Students	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input checked="" type="checkbox"/>	Class 4E			23	25	124.5	1619	292	3.0%
<input type="checkbox"/>	Class 5B			21	36	50.0	2812	695	7.8%
	Ungrouped	N/A		10	2	0.0	7	0	0.0%

1. Login as administrator
2. Go to the “Users” tab in the Navbar
3. Go to Student Groups and select the groups you wish to be deleted with checkboxes or dragging
4. Click “delete groups”

## Group Summary Statistics

3. Navigate to the Student Groups Section and click on the group name that you would like to select
4. The statistics for that group will show at the top of the page

A 'group' is set of students, such as a classroom of students or all students in one grade. Add students by selecting a group.

Delete Groups

<input type="checkbox"/>	Group	Edit	Coach	# Students	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input checked="" type="checkbox"/>	Class 4E			23	25	124.5	1619	292	3.0%
<input type="checkbox"/>	Class 5B			21	36	50.0	2812	695	7.8%

# Students	23
Logins	25
Login Time	124.5
Videos Viewed	1619
Exercises Completed	292
Mastery	3.0%

**Students +**

This report contains information about recent student activity.

Change Student Groups  Delete Students

<input type="checkbox"/>	Student Name	Edit	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input type="checkbox"/>	Aiyer, Abhi			Class 4E	1	73.7	0	5	1.2%

## Removing Users From a Group

To remove users from a group:

1. On the user list page, select both the user(s) you want to move and “ungrouped” to remove the user from any group.

<b>Students +</b>									
This report contains information about recent student activity.									
Change Student Groups <input type="text"/> <b>List of groups</b> Delete Students									
<input type="checkbox"/>	Student Name	Edit	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input checked="" type="checkbox"/>	DYLAN			Class 4E Class 5B Ungrouped	0	0	0	0	0.0%
<input type="checkbox"/>	db				1	0.0	2	0	0.0%
<input type="checkbox"/>	stu				0	0	0	0	0.0%

## Permanently Deleting Users

5. Click the User link in the top navigation of KA Lite.
6. Navigate to the “Students” section of the page.
7. Select a user or users to delete with checkboxes or dragging.
8. Click “Delete Students”

**Students +**

This report contains information about recent student activity.

Change Student Groups

<input type="checkbox"/>	Student Name	Edit	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input checked="" type="checkbox"/>	DYLAN		---		0	0	0	0	0.0%
<input checked="" type="checkbox"/>	clb				1	0.0	2	0	0.0%
<input type="checkbox"/>	stu		---		0	0	0	0	0.0%

## Edit User Information

5. Click the Users link in the top navigation of KA Lite.
6. Navigate to the “Students” section of the page
7. Click the blue pencil corresponding to the user that you want to change

**Students +**

This report contains information about recent student activity.

Change Student Groups:  : Delete Students

<input type="checkbox"/>	Student Name	Edit	Coach	Group	Logins	Login Time	Videos Viewed	Exercises Completed	Mastery
<input type="checkbox"/>	DYLAN		---		0	0	0	0	0.0%
<input type="checkbox"/>	db				1	0.0	2	0	0.0%
<input type="checkbox"/>	stu		---		0	0	0	0	0.0%
<input type="checkbox"/>	student				1	0.0	4	0	0.0%
<input type="checkbox"/>	Alyer, Abhi			Class 4E	1	73.7	0	5	1.2%
<input type="checkbox"/>	Awolowo, Alison		---	Class 5B	0	0	0	0	0.0%
<input type="checkbox"/>	Boyd, Ben			Class 5D	6	6.6	426	131	30.8%

8. Make all necessary changes on the edit user page, and click Update user.

**KA LITE** video, topic, or exercise...

### Edit user demostudent

(Group/class):  
  
 (Add a new group)

Username:

First Name:

Last Name:

Password:

Confirm password:

**click to update user information**

## Updating KA Lite

If a new version of KA Lite comes out, you can update version 0.11.1 to the latest version by following the instructions below.

### Updating on Mac OS

1. Open the "Terminal" application.
2. Navigate to your KA Lite installation:
  - a. If you are comfortable with UNIX, use the "cd" (change directory) command to move inside of your KA Lite directory (e.g. `cd <path_to_kalite>/ka-lite/kalite`).
  - b. If you have no clue what UNIX means:
    - i. Type "cd" into the Terminal - don't press Enter yet!
    - ii. Next: open your "Finder" application, navigate to the "kalite" folder (note that this is not the ka-lite folder [missing the dash]). Drag and drop the kalite folder right into the Terminal App. This should add a filepath to your command (so it will look like `cd some/path/to/ka-lite/kalite`) and press Enter. This will automatically navigate you into the right directory.
3. Run the command to update KA Lite: Into the terminal, type `'python manage.py update'`

### Updating on Linux

1. Inside of the KA Lite directory, run the command: `python manage.py update`
2. This will download the latest version of KA Lite!

### Updating on Windows

1. We have created a GUI installer for Window's users that will automatically download the latest version of KA Lite and upgrade your installation to the latest version.
2. First, [download](#) the Window's Installer.
3. Run the .exe file
4. When prompted, ensure that you tell the installer to not overwrite your old database file, as this will delete all of your students' progress. Instead, tell it to use the old database file and continue.
5. This will upgrade you to the latest version of KA Lite!

### Management Commands

From the command prompt, in your ka-lite/kalite directory, if you run `'python manage.py'`, you will see a list of management commands that give you some control over your app.

### How do I run them?

From the command prompt, in your ka-lite/kalite directory, run `'python manage.py [command]'`,

## What commands are available?

Here, we list out ALL of the available commands in three sets:

- KA Lite-related commands that we intend you to use
- KA Lite-related commands that we do not intend for you to use
- KA Lite-unrelated commands

### KA Lite-related commands -- OK to use

[kalite]

update - update your version of KA Lite. Must be online or provide a zip file. (v0.9.4+)

zip\_kalite - package your version of KA Lite into a zip file, to share with your friends! Includes local\_settings.py, but no zone information nor data. The zip file will be stored in the kalite directory.

[main]

apacheconfig - for configuring KA Lite to run under apache (by default, configured to run under a Python-based web server)

cache - manipulate the cache

subtitledownload - force downloading and installation of specified subtitles data (v0.9.4+)

videoscanner - rescan the hard drive and database, to synchronize available video information.

[securesync]

changelocalpassword [username]- reset the password for a facility user (student, coach account)

retry\_purgatory - run only if you find errors in syncing

syncmodels - force models to synchronize immediately (online access required)

### KA Lite-unrelated commands -- OK to use

[auth]

change\_password - reset the password for an admin account (not coach, nor student)

create\_superuser - create a new admin account (not coach, nor student)

[django]

dumpdata - save your local data to a backup (JSON format)

loaddata - load your local data from a backup (JSON format)

validate - validate your basic server installation

[south]

migrate - run in case your

### KA Lite testing related commands -- DON'T use these!

[coachreports]

generate\_fakedata - generate exercise data for fake users

generaterealdata - generate exercise, video, and user login data for fake users

[django\_cherrypy\_wsgiserver]

runcherrypyserver - runs the python-based web server (run via start.sh / start.bat instead)

[main]

initdconfig -

khanload - download new topic data from Khan Academy. WARNING: may fail, and may destroy necessary KA Lite data!

videodownload - force downloading of videos selected from "update" UI

[securesync]

generatekeys -

initdevice - run once, during installation.

KA Lite-unrelated commands -- DON'T use these!

[chronograph]

cron

cron\_clean

cronserver

[django]

cleanup

compilemessages

createcachetable

dbshell

diffsettings

flush

inspectdb

makemessages

reset

runfcgi

shell

sql

sqlall

sqlclear

sqlcustom

sqlflush

sqlindexes

sqlinitialdata

sqlreset

sqlsequencereset

startapp

startproject

**[django\_extensions]**

- clean\_pyc
- compile\_pyc
- create\_app
- create\_command
- create\_jobs
- describe\_form
- dumpscript
- export\_emails
- find\_template
- generate\_secret\_key
- graph\_models
- mail\_debug
- notes
- passwd
- print\_settings
- print\_user\_for\_session
- reset\_db
- runjob
- runjobs
- runprofileserver
- runscript
- runserver\_plus
- set\_fake\_emails
- set\_fake\_passwords
- shell\_plus
- show\_templatetags
- show\_urls
- sqlcreate
- sqldiff
- sync\_media\_s3
- syncdata
- unreferenced\_files
- update\_permissions
- validate\_templates

**[south]**

- convert\_to\_south
- datamigration
- graphmigrations
- migrationcheck
- schemamigration
- startmigration
- syncdb
- test
- testserver

```
[staticfiles]
collectstatic
findstatic
runserver
```

## Configuration Settings

Once you have deployed KA Lite to a computer, there are a number of ways you can customize the behavior of your installation. Below, you will find a list of these possible customizations with instructions or descriptions on how to do it.

***Please follow these instructions carefully! Customizing the server incorrectly can break your installation. It can be very hard to find and undo the error.***

A more advanced way to customize your installation's behavior is by adding a file called "local\_settings.py" in the same folder that you find the file "settings.py" (ka-lite/kalite/settings.py). Below is a list of options that you can set in local\_settings.py, and what they mean.

As of version 0.9.3 (Dec, 2012):

- CONTENT\_ROOT = "<path to desired content folder>" (default=ka-lite/content)
  - This is the path that KA Lite will use to look for KA Lite video files to play. Change the path to another local directory to get video files from that directory.
- TIME\_ZONE = <desired time zone> (default = "America/Los\_Angeles")
  - You can set this to be the local time zone for your installation. Choices can be found [here](#).
- LANGUAGE\_CODE = "<desired ISO 639-1 Language Code>" (default = "en-us")
  - You can set this to the desired language code for this installation (All choices can be found [here](#)). If there are translations available, our web server will show them in KA Lite. Soon, we hope to provide support for internationalized content inside the KA Lite interface.
- USE\_I18N = <True or False> (default = True)
  - If you set this to False, our web server will make some optimizations so as to avoid loading internationalization tools. Things might run a little faster, but you won't have support for translated content.
- USE\_L10N = True
  - By default, this is set to False. If you set this to True, Django will format dates, numbers and calendars according to the current locale. For example, January 5, 2000 would be 1/5/2000 if locale = "en-us" and 5/1/2000 if locale = "en-gb"

New in version 0.10.0 (August 26, 2013):

- PRODUCTION\_PORT = <desired port number> (default=8008)
  - This is the port that KA Lite will run on when started. Here is a [list of available ports](#).
- USER\_LOG\_MAX\_RECORDS = <desired maxium for user log records> (default = 0)
  - When this is set to any non-zero number, we will record (and sync for online tracking) user login activity, summarized for every month (which is configurable, see below). Default is set to 0, for efficiency purposes--but if you want to record this, setting to 1 is enough! The # of records kept are not "summary" records, but

raw records of every login. These "raw" data are not synced, but are kept on your local machine only--there's too many of them. Currently, we have no specific report to view these data (though we may have for v0.10.1)

- **USER\_LOG\_SUMMARY\_FREQUENCY** = <desired frequency in the following format (number, amount of time)> (default = (1, "months"))
  - This determines the granularity of how we summarize and store user log data. One database row is kept for each student, on each KA Lite installation, for the defined time period. Acceptable values are:
    - (1, "months"), (2, "months"), (3, "months"), (6, "months") - separate logged data for every month, 2 months, 3 months, or 6 months, respectively
    - (1, "weeks") - separate logged data for every week \*\* NOTE THIS MAY PRODUCE A LOT OF DATA \*\*
- **SYNC\_SESSIONS\_MAX\_RECORDS** = <desired max records of sync sessions> (default = 10)
  - Every time your installation syncs data, we record the time of the sync, the # of successful logs that were uploaded and downloaded, and any failures.
  - This setting is how many such records we keep on your local server, for display.
  - When you log in to our online server, you will see a \*full\* history of these records.
- **CRONSERVER\_FREQUENCY** = <desired frequency of cronserver to run in seconds> (default = 10 minutes)
  - This is how frequently KA Lite tries to synchronize user data with other Devices on your Zone. This can be changed to sync data more often (use a smaller #), or if you're never online (can be set to a large number)
- **CACHE\_TIME** = <desired length of cache time, in seconds> (default = 5\*365\*24\*60\*60) (that's 5 years!)
  - Our basic topic pages, video pages, and exercise pages rarely change--only when you download new videos (changes made by user logins are made in a different way). Therefore, we can "cache" copies of these pages, to avoid constantly regenerating them, and speed up KA Lite. We have logic to delete the cached copies, and therefore generate new copies, if you download new videos or delete old videos through our interface.
  - If you would like to disable caching, set **CACHE\_TIME** = 0 .
  - Read a little more about [caching on Wikipedia](#).
- **CACHE\_LOCATION** = '<path to cache directory>' (default= dir named kalite\_web\_cache in the OS temporary dir)
  - Some operating systems will clear the temporary directories when the system is rebooted. To retain the cache between reboots, an alternative location can be specified. (for example on Linux, "/var/tmp/kalite\_web\_cache")
- **CHERRYPY\_THREAD\_COUNT** = <number of threads> (default=50)
  - The CherryPy Webserver can handle multiple page requests simultaneously. The default is 50, but for slow or single CPU servers, performance will be improved if the number of threads is reduced. Minimum number of threads is 10, optimum setting for Raspberry Pi is 18.
- **USE\_MPLAYER** = <True or False> (default = False)
  - With this setting, if the browser is run from the same computer as the KA Lite server, then instead of playing the video in the browser, the video will be

launched outside of the browser and played in mplayer - a light-weight video player that is included with the KA Lite software.

- This is intended for use only on the Raspberry Pi, where no other video player is available.

New in version 0.11.1 (March 12, 2014):

- LOCKDOWN = <True or False> (default = False)
  - With this setting, users must be logged in order to access videos & exercises
- CONFIG\_PACKAGE = "<Desired Config Package>"
  - Allows enabling of different config packages to enable commonly requested custom behaviors.
    - "UserRestricted" - Doesn't allow users to sign up themselves

\* If you examine settings.py you will frequently see variables set with the following syntax:

```
DEBUG = getattr(local_settings, "DEBUG", False)
```

This is essentially checking first to see if DEBUG is set in local\_settings. If it is, use that, if not, set it to False. Any variable set with this syntax in settings.py can be overwritten in local\_settings.py. Again, don't change anything on a live installation that you aren't sure about, but for testing purposes, feel free to experiment!

## Glossary of Terms

### *Project Administrator*

plans out the deployment and logistics, procures the devices and installs KA Lite, and oversees their delivery and integration into the classroom or community. They can also update the software, add content, customize configuration settings, and manage user accounts.

### *Coach (also referred to as 'facilitators' or 'teachers')*

users who add, manage, and track the progress of groups of students. They have access to student progress data in the form of coach reports, and can step in and provide individualized instruction when the student needs it.

### *Students*

users who use KA Lite primarily for learning. They earn points for watching videos and answering exercises correctly, and their progress is tracked by the system.

### *Mastery*

enough correct answers such that a student has demonstrated that a concept has been learned sufficiently to move to the next concept. For KA Lite exercises, this means correctly answering the same exercise 10 times in a row.

### *Organization*

An Organization is a group of people responsible for administering a set of Sharing Networks. An organization can have multiple administrators and manage multiple sharing networks.

### *Sharing Network*

A sharing network is a group of devices that share data between one another.

### *Facility*

A facility is the physical space in which a device is located (e.g. a school or a computer lab in a community center). Student, coach, and admin accounts are associated with a particular facility.

### *Device*

A device should be able to run a KA Lite server (most computers) and other devices to be used as clients. One common configuration is using a [Raspberry Pi](#) or other inexpensive computer as a server and relatively cheap tablets as client devices. Tablets can access the servers through an access point, such as a Wi-Fi dongle, or some other networking device such as a router.<sup>345</sup>