

HUBZILLA MATHS

Interactive IB Mathematics: Analysis and Approaches

STUDENT GUIDE

How the site works, and what to do when something doesn't.

WRITTEN FOR
Students

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READ IT ONLINE
www.hubzillamaths.com/help

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This is the printed form of the guide at www.hubzillamaths.com/help, which is kept up to date as the site changes. Every link in this document opens the page it names.

1 Getting started

Lessons are grouped into units on your dashboard. Each lesson is a sequence of sections, shown one at a time: notes to read, videos to watch, and questions to answer, with the bar across the top of the lesson tracking where you are. You can jump straight to any section from that bar.

The **Next Section** button appears once you have finished the one you are on:

Section	Finished when
Notes	Straight away. Read it and move on when you are ready
Video	You have watched most of it (or watched it on an earlier visit)
Questions	Every question in the section is right
Exam practice	Same as questions, and it carries a mortarboard in the top bar

Nothing is locked. The arrows in the top bar always work, so you can look ahead or go back over something without finishing the section you are on.

Your progress saves automatically as you go, so you can stop mid-lesson and pick it back up on any device. The card at the top of your dashboard takes you back to wherever you left off.

2 Finding a lesson

The search box above the units on your dashboard matches lesson titles, unit names and IB spec points, so **binomial** and **SL1.9** both find the same lesson. It filters as you type.

Lessons that are HL-only carry a purple **HL** badge. A lesson that has not been written yet still appears, and opening it shows a **coming soon** card; it does not count towards your progress. One marked **Coming soon · beta questions** is different: its exam practice is ready and the marks do count, but the notes and video are still being written and the questions have not been checked over yet, so tell us if an answer looks wrong.

A lesson marked **Locked** is one your teacher opens in class. Anything you have already done in it still counts, and you can still see what you got wrong there.

3 Answering questions

Type answers using the on-screen maths keyboard, in ordinary notation: a fraction looks like a fraction, and a square root looks like a square root. A physical keyboard works too, and Enter submits.

Answers are marked by comparing the *maths*, not the text, so any equivalent form counts. If the answer is $(x+1)^2$, then $x^2 + 2x + 1$ is just as correct. Where a question asks you to simplify, expand or factorise, re-typing the question is not accepted, and neither is an answer that is equivalent but less simplified than the one asked for.

Some questions are a different shape:

Question	What to do
Several unknowns	You get a labelled box per unknown. Each is marked on its own, so one wrong part does not cross out the rest.
Write down an equation	Type it with the = key, bottom-right of the keyboard. Any rearrangement of the same equation is accepted: a + b = 50 and a = 50 − b both count. Inequalities work the same way.
To N significant figures	Give the decimal. If you type the exact form instead, you are told the value is right but a decimal is wanted.
Show that…	The answer is already in the question, so there is nothing to type. Work it through on paper, check yourself against the worked solution, and tick it off.
Multiple choice	Pick one option, or all that apply where the question says so. Those are marked as a set, so every correct option has to be selected and no wrong one.

Each question shows what it is worth, and whether a calculator is allowed: a green calculator means yes, a crossed-out red one means no. That matches the IB's split between Paper 1 and Paper 2.

If the site cannot read what you have typed, an unfinished expression or a bracket left open, it says so. Fix it and submit again.

4 Hints, worked solutions and mark schemes

Most questions have a hint, available from the start and surfaced automatically after two wrong attempts. A hint on your first try is not cheating.

Most questions also have a written **worked solution**, and exam-style questions have an IB-style **mark scheme** showing where each mark is earned. Both stay locked until you have either got the question right or had two goes at it, and the button tells you how many tries are left. Once a solution unlocks it stays unlocked, including after a reload.

A **show that** question is never locked: there is nothing to submit, so the solution is what you check yourself against.

Some lessons also have solution videos, per question or for a whole section.

5 Your progress

The bar under the course title on your dashboard is your progress through the whole course, and each lesson has its own. Both combine the marks you have earned on questions with the notes and videos you have worked through.

Finish every lesson in a unit and the dashboard says so. The faint curve behind the dashboard is your marks earned against elapsed time.

Progress is recorded per question, so you can come back weeks later and pick up where you were. **Reset this lesson** at the bottom of a lesson clears that lesson only, and **Reset progress** on the dashboard clears everything. Both are permanent, and your teacher can see that a reset happened.

6 Reviewing what you got wrong

At the bottom of every lesson there is a **Review your answers** link, or **Revise this lesson**, where revision is ready. It lists the questions you got wrong in that lesson along with what you typed.

Not every lesson has revision questions ready yet. Where it does, the same page puts a practice stream above that list. See below.

7 Revising a lesson

Revision is a stream of fresh questions drawn from a lesson: some written for the lesson, some generated with new numbers each time.

It leans towards what you found hard. Every question belongs to a *type* of task (“rewrite a log as an exponential”, for example), and the stream weights the types you have got wrong or have not met recently. Underneath the stream is the list of what you got wrong when you first worked the lesson.

Revision does not change your lesson progress. Nothing you do here fills a progress bar, completes a section, or counts towards an assignment. It is recorded separately, and your teacher can see it like the rest of your work.

8 The syllabus view

Your syllabus is the same progress read a different way: the whole IB Mathematics: Analysis and Approaches specification, in the IB’s own words, with how far you have got against each point and which lesson covers it.

It shows SL or HL depending on your class, so join an HL class and the HL topics appear. If you are in no class, it follows the level on your account. Where your teacher has marked something as taught, that shows too, so you can tell “not covered yet” apart from “covered, and I have not done it”.

Use it for revision planning, and for finding the lesson that covers a topic.

9 Assignments

If your teacher sets work, it appears at the top of your dashboard, above everything else, with what has been set, when it is due, and how far through it you are. Clicking it opens the lesson.

An assignment is usually part of a lesson rather than all of it, and it clears at a percentage of the marks in those sections. The card tells you what you need. Sections with no questions, like a video, clear by being watched, so “watch the video and get 80% on the questions” is one assignment.

Late work still counts. Nothing locks at the deadline: the assignment keeps scoring and shows as done late. You will get an email when work is set and a reminder the day before it is due, sent only if you have not finished it.

10 Joining a class

If your teacher gives you a join code, enter it on your dashboard. Joining lets them see your progress, what you have answered and where you are getting stuck, and it is how assignments reach you.

Joining a class also sets whether you see the SL or the HL course. If that changes what you are shown, the dashboard tells you once. Being in both an SL and an HL class shows you everything.

You do not need a class to use the site; you can work through everything on your own.

11 Your calculator

Calculator demos are filmed for each of the common IB models, and you only see the one you have chosen. Set it once on your account page and every demo and every set of keystroke instructions on the site follows it. Supported models: TI-Nspire CX II, TI-84 Plus CE, Casio fx-CG50, Casio fx-CG100, NumWorks.

The choice is stored on your account, so it follows you between devices. You can change it at any time, and the picker on a demo changes it too.

12 Videos and captions

Videos play in the page, and a video section counts as done once you have watched most of it. There is also a button to mark it watched, for when you have seen it before or watched it in class.

Where captions exist they can be turned on from the player, in English and in Español, Français, Italiano, Deutsch, 中文（简体）. Not every video has every language yet.

13 Something looks wrong

If a question is marking a correct answer as wrong, a video will not play, or anything else looks broken, use the **Report a problem** button in the corner of any page. It sends along which lesson and question you were on.

If a question will not accept an answer you are sure is correct, that is worth reporting.

For anything else, an account problem or a question about the course, email jamie@hubzillamaths.com.

14 Your account and your data

From your account page you can change your name, set your calculator, change your password, sign out of other devices, download everything stored about you, and delete your account. Deleting is permanent and takes your progress with it.

The light/dark switch is in the header, next to your name, and is remembered per device.

See the Privacy Policy for what is stored and why, and the Terms of Service for the terms of use.

Something not covered here? The version at www.hubzillamaths.com/help is the current one — this document is a snapshot of it. Anything on the site that looks broken can be sent in with **Report a problem**, in the corner of any page; for anything else, email jamie@hubzillamaths.com.