

SciMath Keyboard

Quick Start Guide

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Setting Up

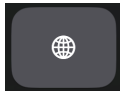
Installing the Keyboard

1. Download SciMath Keyboard from the App Store.
2. Open **Settings** → **General** → **Keyboard** → **Keyboards** → **Add New Keyboard**.
3. Select **SciMath Keyboard** from the list.

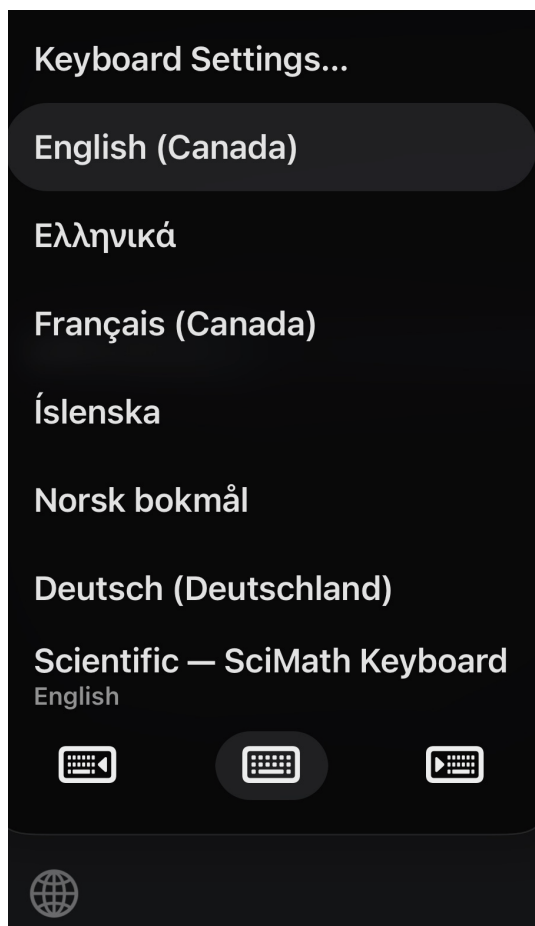
Note

iOS will warn that the keyboard may be able to access everything you type. This warning appears for all third-party keyboards regardless of their behaviour. SciMath never logs or transmits what you type. Full Access is not required and SciMath will never ask for it.

Switching to SciMath



Tap the **globe key** on any keyboard to cycle to the next installed keyboard. Hold the globe key to see a list of all keyboards and pick SciMath directly.



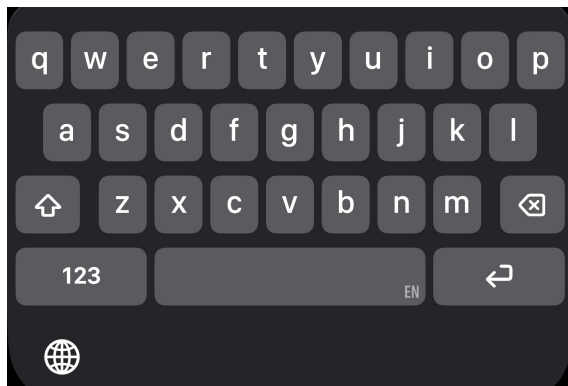
Switching Away

Tap the globe key again to return to your previous keyboard, or hold it and select from the list.

Finding Your Way Around

SciMath has four layers. You are always on one of them.

Layer	What you see	How to get there
ABC	Letters	ABC button, or globe → SciMath
123	Numbers, punctuation	123 button
#+=	Brackets, operators	#+= button (from 123)
sci	Scientific symbols	sci button (from #+=)



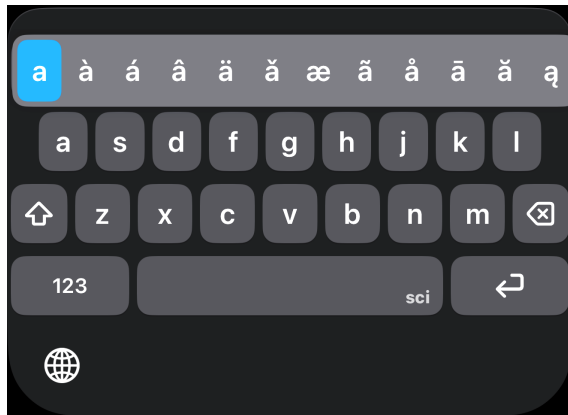
To return to letters from anywhere: tap the ABC button.

To cycle through symbol layers: tap 123 → #+= → sci → 123.

Typing a Letter with a Diacritical Mark

To type à, ö, ñ, ě, or any other diacritical variant:

1. Make sure you are on the ABC layer.
2. **Hold** the base letter key. A popup row of variants appears.
3. **Slide** your finger to the variant you want. It highlights as you pass over it.
4. **Lift** your finger. The highlighted character is inserted.



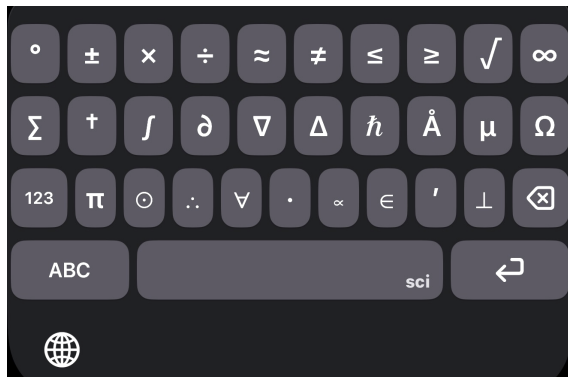
Note

Keys on rows 2 and 3 produce a popup that rises above the key. Keys on the top row produce a popup that drops below the key. The slide gesture is the same in both cases.

SciMath's diacritical set is a superset of the stock iOS English keyboard, covering French, German, Scandinavian, Spanish, Eastern European, and scholarly Latin variants.

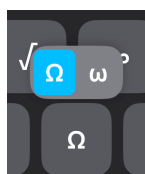
Typing a Scientific Symbol

1. Tap **123** to go to the number layer.
2. Tap **#+=** to go to the symbol layer.
3. Tap **sci** to go to the scientific layer.
4. Tap the symbol you want. It is inserted immediately.
5. Tap **ABC** to return to letters, or continue typing in the sci layer.



The sci layer stays active until you explicitly leave it. You can type an entire expression — $\nabla \times E = -\partial B / \partial t$ — without switching layers.

Symbols with Long-Press Alternates

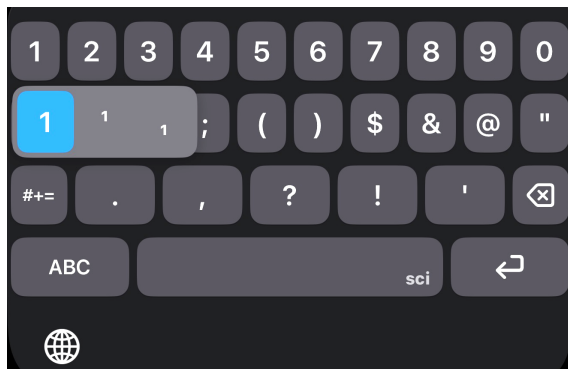


Hold this key	To get
π	\prod
Ω	ω
\in	$\notin \exists \subset \supset \cup \cap \emptyset$
\odot	$\oplus \otimes$
\therefore	\because
\forall	\exists
\dagger	$\ddagger \S \parallel \P \times$
,	"
\perp	\parallel

Typing Superscripts and Subscripts

Superscript and subscript digits are available on long-press from the 123 layer.

1. Tap **123** to go to the number layer.
2. **Hold** the digit you want. A popup shows the superscript and subscript variants.
3. **Slide** to the variant and **lift**.



Typing Footnote Symbols

In mathematical and technical writing, footnote symbols are preferred over superscript numbers when the text already uses superscripts for exponents or indices. The traditional sequence:

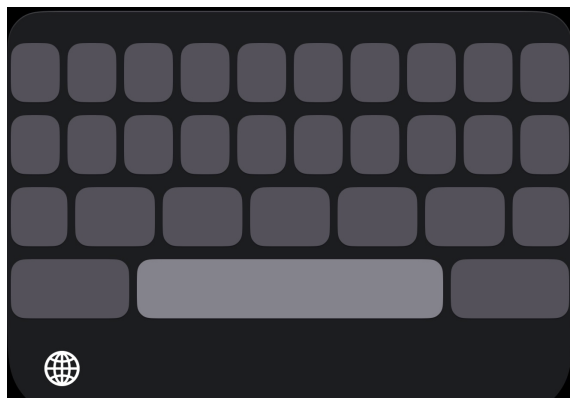
* † ‡ § || ¶ ✖

To type the asterisk *: tap **123** → #+=. Tap *.

To type † and beyond: tap **123** → #+= → sci. Hold †. Slide to the symbol you want and lift.

Moving the Cursor (Trackpad Mode)

1. **Hold** the spacebar. After a moment, the key labels fade.
2. **Drag left or right** to move the cursor.
3. **Lift** your finger to exit trackpad mode.



Emoji

SciMath does not have an emoji key. To insert emoji, hold the globe key, switch to a stock system keyboard, select your emoji, then hold the globe key and switch back to SciMath.

Using the SciMath App

The SciMath app is a composition workspace. Use it to build expressions at your own pace, then copy or screenshot the result with a clean background.

Composing an Expression

1. Open the SciMath app.
2. Tap the **input field** at the bottom of the screen. The SciMath keyboard appears.
3. Type your expression. The field expands as you type.
4. Tap the **arrow button** to submit. The expression appears in the list above.

Your draft is saved automatically between sessions.

Copying an Expression



Copy

1. Tap **Copy** beside the entry. A checkmark confirms the copy.
2. Switch to your target app and paste.

To copy only part of an entry, press and hold the entry text to activate iOS text selection.

Deleting Entries

Edit

To delete one entry: tap **Edit**, then tap the delete control beside the entry.

Clear All



To delete all entries: tap **Clear All**. This cannot be undone.

Settings

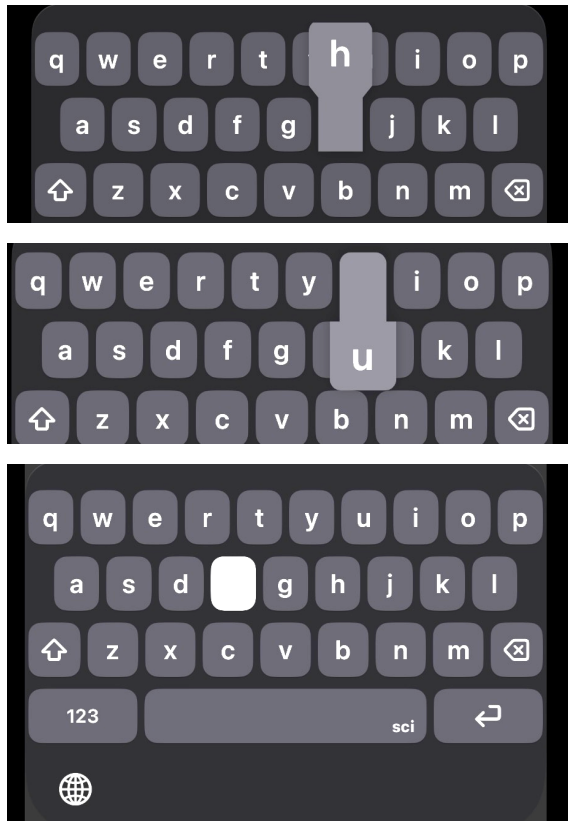
Both settings are in the SciMath app toolbar.

Key Flash

The lightbulb button toggles key flash on the keyboard.

Icon	Effect
	Keys brighten briefly on each tap
	No visual feedback on tap




When flash is off, a magnified balloon preview appears above or below each key on iPhone. When flash is on, the key brightens immediately on contact — visible in bright sunlight where balloons may not be.



The setting takes effect immediately. You do not need to restart the keyboard.

Appearance

The appearance button controls the app background — useful for screenshots.

Icon	Mode
	Follow iOS system setting
	Force light mode (white background)
	Force dark mode (dark background)

Tap the button to cycle through the three states.

Keyboard Clicks

SciMath supports iOS keyboard click sounds. Clicks respect the system setting at **Settings** → **Sounds & Haptics** → **Keyboard Clicks**.

Accessibility

SciMath is compatible with iOS accessibility features including Speak Characters and Speak Screen. No configuration is required.

Autocorrect and Predictive Text

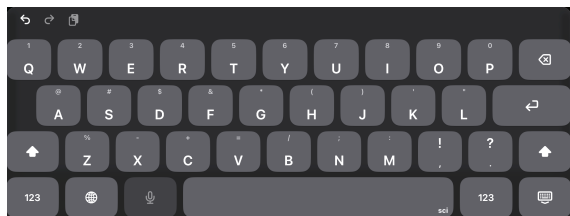
Autocorrect and predictive text do not function with SciMath. iOS requires Full Access to pass text context to the correction engine. This is by design and will not change.

If you need autocorrect, switch to a stock system keyboard for prose passages and return to SciMath for symbol entry.

iPad-Specific Features

Pull-Down Characters

On iPad, every key on the ABC and 123 layers shows a small secondary character above its main label. Swipe downward on any key to insert that secondary character without switching layers.



Hide Keyboard

Tap the **hide keyboard button** (bottom right of the toolbar, chevron-down icon) to dismiss the keyboard without switching apps.



Dictation

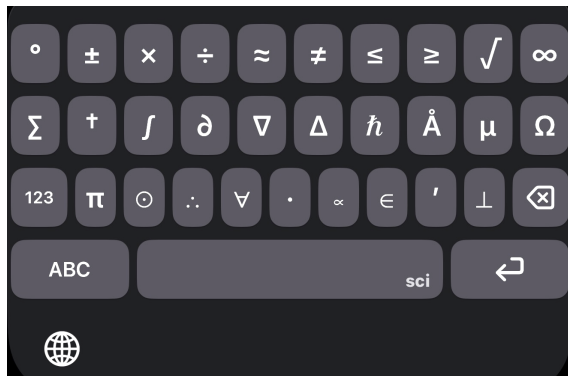
SciMath does not support dictation. Dictation requires Full Access and routes audio through Apple's servers, which is incompatible with SciMath's privacy model.

To dictate text alongside SciMath content:

1. Hold the globe key and switch to a stock system keyboard.
2. Dictate your text.
3. Hold the globe key and switch back to SciMath.

Quick Reference

sci Layer



Row	Keys
1 — Operators	$^{\circ} \pm \times \div \approx \neq \leq \geq \sqrt{\infty}$
2 — Calculus	$\sum \dagger \int \partial \nabla \Delta \hbar \text{\AA} \mu \Omega$
3 — Logic / sets	$\pi \odot \therefore \forall \cdot \infty \in ' \perp$

Long-Press Alternates — Scientific

Key	Alternates
π	Π
Ω	ω
\in	$\notin \exists \subset \supset \cup \cap \emptyset$
\odot	$\oplus \otimes$
\therefore	\because
\forall	\exists
\dagger	$\ddagger \S \parallel \P \times$
$'$	$''$
\perp	\parallel

Long-Press Alternates — Punctuation

Key	Alternates
$?$	$\text{?} \text{¿} \text{?}$
$!$	$!$
$-$	$- \text{—} \cdot$
$\$$	$\text{€} \text{¢} \text{¥} \text{£} \text{₤} \text{₹}$
$;$	$\text{⋮} \text{;}$
$"$	$\text{«} \text{»} \text{''} \text{''}$
$/$	\backslash
$\&$	§
$=$	$\equiv \Rightarrow \Leftrightarrow \neq$
$<$	$\langle \ll$
$>$	$\rangle \gg$

Long-Press Alternates — Numbers

Key	Superscript	Subscript
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

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