

hiraia

Free on-device AI science
tutor for public schools

◆ HIRAIA.ORG



Learning Poverty in the Philippines

PAGBASA · READING

91%

of children can't read and/or understand an age-appropriate page of text

MATH · SCIENCE

15 $\approx$ 10

the average 15-year-old Filipino student is at the math and science level of a 10-year-old Singaporean

TAON · SCHOOL YEARS

-3

our children are three school years behind the global average

The Biggest Gaps

65,000

more teachers needed

156,000

more classrooms needed

65%

of households have no
fixed internet

Any tutoring tool that depends on the cloud leaves out the two-thirds of families it was meant to serve.

The Hiraia Solution

A free AI science tutor that runs entirely offline on entry-level Android phones, and speaks in fluent Tagalog and English.

1 ON-DEVICE, OFF-LINE

The AI model, illustrations and science fact bank all live on the phone. After a one-time download, no internet is required — ever. No account, no data leaves the device.

2 TAGALOG · ENGLISH

Built for Philippine elementary to junior high, aligned with DepEd's 2027 MATATAG science curriculum. It knows what's taught at school and reinforces it at home.

3 100% FREE FOREVER

No payments or subscriptions. Download and share freely with classmates — a peer-to-peer classroom share means the 2GB model only has to be fetched once per school.

50k science
facts

30k illustrations

20k mini-
quizzes

Continued-pretraining fork of Qwen 3.5-2B, trained on a Filipino & Bisaya corpus and the MATATAG curriculum.

Inside the App



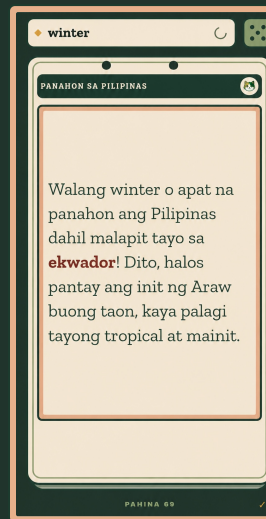
One fact, one illustration per card.



A quiz checks memory every few cards.



A recap reinforces what was just read.



Cards generated from a student's own question.

AI NARRATION

We trained our own AI voice model to read every card aloud.

For students struggling with literacy, the tutor speaks in natural Tagalog and English, without an internet connection, like everything else in Hiraia.

Project Timeline

AUGUST 2026

Initial Build

vo.5 build: Language corpus assembly, Qwen 3.5 CPT, website and Android APK development

SEPT – NOV 2026

Pilot runs in participating schools

Target: **100 students** across 3 classrooms

DECEMBER 2026

Pilot synthesis and integration

Findings folded back into the tutor and the classroom tools

JAN – MAR 2027

Larger-scale v1.0 rollout

Target: **1,000 students** across 10 schools

What We're Looking For

FUNDERS

Continued AI inference training and logistics

Model training runs, illustration and voice generation, and getting people and devices to pilot classrooms.

DEVICE DONORS

Mobile devices for students

Android 10+ with **6GB+ RAM**, new or used. Each phone becomes a student's own offline tutor.

PILOT SCHOOLS

Public grade schools for a 6-week pilot

Diagnostic exams at the start and end of the pilot let us compare student performance before and after.

Want to participate?

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