

Hei hāpai i te pāngarau, kia eke taumata ai ā tātou tamariki

# e-ako & pāngarau

## An introduction for parents

### He aha tēnei mea te e-ako pāngarau?

- This is a Ministry of Education online resource to help children's learning in some aspects of pāngarau.
- It is designed to be integrated with the normal school programme to help consolidate learning.
- Students follow a learning pathway, and complete a series of interactive modules on their computer or i-pad.
- As students complete each page of a module, they check to see if they are correct. They receive feedback to help if an error has been made.
- Students can access the e-ako modules at school, at home, or from wherever they can connect to the internet.
- The resource is aimed at Levels 2 to 4 of the pāngarau curriculum, broadly covering Years 4 to 9.
- It is free for students in Aotearoa.
- The te reo Māori e-ako have been re-versioned from the English e-ako by He Kupenga Hao i te Reo.

### Me pēhea te whai wāhi atu ki ngā e-ako pāngarau?

- Go to the [www.nzmaths.co.nz](http://www.nzmaths.co.nz) website and navigate directly from the home page to e-ako pāngarau:

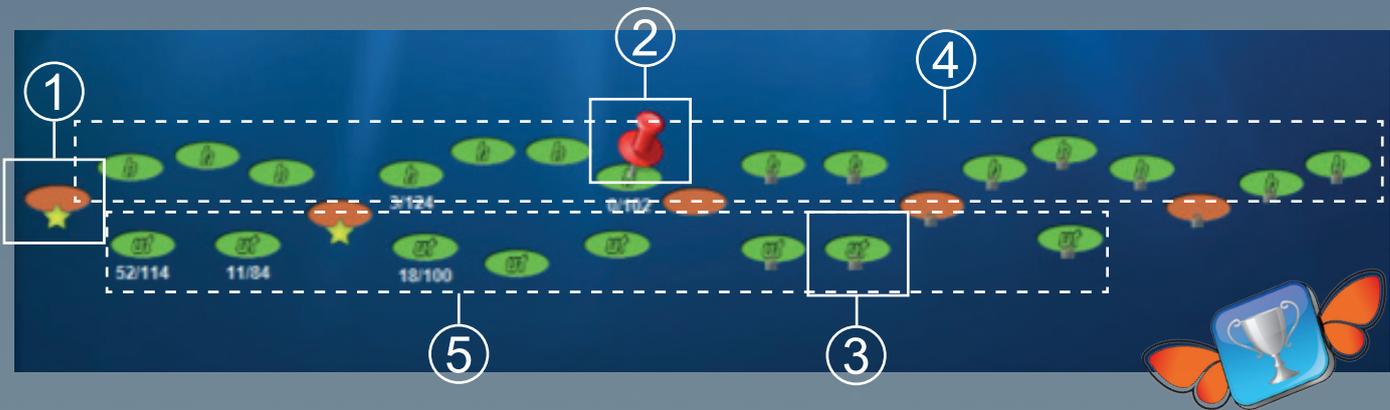
Click here to go to e-ako pāngarau



- Click on [Urunga](#) if you have already registered. Click on [Rēhita](#) if this is your first time and follow the instructions to register.

## Ngā ara e-ako

- Each e-ako module is a complete lesson, most being about about 25 to 30 pages long.
- Each e-ako module is part of a learning pathway connected to a particular aspect of pāngarau. At the beginning of 2015, these are the e-ako pathways that are available:
  - basic facts (5 e-ako modules in total)
  - place value (8 e-ako modules in total)
  - fractions (14 e-ako modules in total)
  - patterns and relationships (15 e-ako modules in total)
- Each e-ako pathway is sequential. The earlier modules in the sequence must be completed before going on to the later modules. The modules increase in difficulty and challenge over the pathway.
- The e-ako pathways have test modules along the way so that students can check on how their learning is progressing.
- Completing a test module will open access to the next lot of e-ako modules in the pathway. Here is an example of one of the e-ako pathway screens with explanations:



1. There are 5 orange tiles. These are the test modules.
2. The pin shows where a student is up to in the pathway.
3. Some modules are locked. Access is gained by completing the previous test module.
4. There are 14 green tiles in the top pathway. These relate to fractions (hautau).
5. There are 8 green tiles in the bottom pathway. These relate to place value (uara tū).

- Students accrue marks or points as they progress through the e-ako modules.
- These points are recorded in the e-ako system. By clicking on the [Panukutanga](#) button, students can see a record of their progress through the e-ako pathways.
- This is an example of a page from the 3rd e-ako fraction module with explanations:

Previous pages in this e-ako

The present page which is page 7 out of 30.

Tohua ngā pikitia e hāngai ana ki te  $\frac{1}{3}$ .

Pikitia A	Pikitia E	Pikitia H

Pikitia A  
 Pikitia E  
 Pikitia H

- It is helpful if students are good readers of te reo Māori and can comprehend text about pāngarau.

## e-ako ki te kāinga

Using e-ako at home can have many advantages:

- An opportunity to work together with your child:
  - Nurture and support them.
  - Help your child be in control of their own learning.
  - Give them an opportunity to teach you and to explain their pāngarau learning.
  - Encourage persistence, to go back over an activity when they make mistakes.
  - Help them to read and understand the text if needed.
- Helping to consolidate their pāngarau learning from the classroom, so they become very familiar with important pāngarau concepts.
- Encouraging them to take control of their own learning, to improve their learning skills and develop perseverance.
  - Students control the pace of the learning.
  - They learn about seeking assistance when needed.

