Subject Support

**NZQA**

* **Best Practice Workshops:** Provide good info on what is required for internal assessments. Only a few are now scheduled but you can request one hosted by your school.
* **Marking External Exams**: Very good PLD – you really learn what students need to know and do to pass these exams. NZQA call for marking panels around June each year. Keep an eye out at <http://www.nzqa.govt.nz/about-us/working-at-nzqa/contract-vacancies/>
* **NZQA Facebook pages**: One way that NZQA notifies us of changes in the documents is on their FB pages. Note, these are not the same as the FB pages set up by teachers. To find the NZQA versions, go to your subject page from <http://www.nzqa.govt.nz/ncea/subjects/> , click on the subject you want, then scroll down the page and hit the Facebook button. That will open up Facebook. Like the page to receive notification of new posts.
* **NZQA newsletters**: NZQA notifies us using these too especially the Assessment Matters Circular. Read at <http://www.nzqa.govt.nz/about-us/publications/newsletters-and-circulars/>

**NZASE**

* **Membership:** The NZ Association of Science Educators is the subject association for all science teachers**.** Annual membership. <http://nzase.org.nz/membership/>
  + NZASE **newsletters** provide articles & information for science teachers. Sign up here <https://nzase.org.nz/>. Some articles are publicly available, some for members only – go to Pedagogy or Science News Backgrounders tabs on the same page.
  + A program of PLD is available for primary and secondary teachers. More info here <https://nzase.org.nz/nzase-network-expertise/>
  + In some regions there are local branches that also provide support and run events
* **Conferences**: NZASE runs SciCon conferences, next due in 2025 in Dunedin

**Online teaching and learning resources**

* **The Science Teaching and Learning Guide**: A comprehensive elaboration of the NZC’s science learning area statement and achievement objectives. It shows what good science pedagogy looks like, provides guidance for program planning & gives examples of programs that include NoS. As of 17-01-2025 accessible at <http://seniorsecondary.tki.org.nz/Science>
* New L1 NCEA assessments came in for use in 2024. **Teaching Learning & Assessments guides** are online <https://ncea.education.govt.nz/science/science?view=learning> . Support and resources are available for all from the subject associations,
* **The Science Learning Hub**: Connects us to the work of NZ scientists with resources for use in the classroom. <https://www.sciencelearn.org.nz/>
* **ARBS**: The Assessment Resource Bank, developed by NZCER, is a collection of items to use for formative or summative assessment. A variety of question types are classified by NoS strand, content strand and by level. Very useful if you need to assess/report by level. Register with your own username and password. [arbs.nzcer.org.nz](http://arbs.nzcer.org.nz/).
* NZ online resources that include science:
  + [No Brain Too Small](https://www.nobraintoosmall.co.nz/): open site: resources for various L1/2/3 subjects
  + [Pathwayz.org](https://www.pathwayz.org/) open site: resources for various L1/2/3 subjects
  + [Learncoach](https://learncoach.co.nz/ncea/): many subjects at L1/2/3
  + [StudyTime](https://studytime.co.nz/): online guides and exams for many subjects
* Most science subject areas have a **Facebook Page** set up by teachers, e.g.: <https://www.facebook.com/groups/346737702172016/> Science (others below)
* **Secondary Literacy Online**: Good resources with plenty of science examples of literacy. <http://literacyonline.tki.org.nz/Literacy-Online/Secondary-Literacy> Still available 17-01-2025
* I send out **Mike’s News,** a weekly newsletter of events, resources & information of interest to science teachers. Sign up at <https://www.mikesnews.co.nz/>

**Subject support**

Many subject associations have received Network of Expertise (NeX) funding for PLD.

**Agricultural and Horticultural Science**

* HATA is the subject association for teachers of Agricultural and Horticultural Science <http://hatanz.com/>
  + HATA Facebook Page <https://www.facebook.com/groups/463920740450543/>
  + Secretary, Kerry Allen will respond to email queries [k.allen@stpauls.school.nz](mailto:k.allen@stpauls.school.nz)
  + Advisor/PLD contact Suzie Newman [s.newman@stpauls.school.nz](mailto:s.newman@stpauls.school.nz), ph 027 275 6620
  + Next HATA conference is planned for 2025.
* As well as HATA resources
  + NZ Ag/Hort Teachers FB page <https://www.facebook.com/groups/1006794696048143/>
  + Richard Fullerton will respond to email queries: [richardlfullerton21@gmail.com](mailto:richardlfullerton21@gmail.com)
  + Ross Redpath is another who will help [ross.redpath@inglewoodhs.school.nz](mailto:ross.redpath@inglewoodhs.school.nz)

**Biology**

* BEANZ is the subject association for biology teachers. <https://beanz.org.nz/>
  + The secure website has resources, including QAAM’d tasks.
  + Resources available from past regional workshops <https://drive.google.com/drive/folders/1HVwl8xZd2wEG3G4-kazE43eOxBFuv4hk>
  + BEANZ will answer queries at [info@beanz.org.nz](mailto:info@beanz.org.nz)
  + BEANZ provides PLD through regional workshops run by their regional reps. Find out about PLD from [info@beanz.org.nz](mailto:info@beanz.org.nz) or your regional rep (listed in the newsletter on website)
  + BEANZ sends out a regular newsletter to members each term
  + A combined BioLive/ChemEd conference is next expected in 2026
* Facebook: NZ Biology teachers <https://www.facebook.com/groups/577352309058780/>
* LENScience website has some useful resources, especially for scholarship <http://lens.auckland.ac.nz/index.php/LENScience_Senior_Biology_Seminar_Series_Home_Page>
* Bio Olympiad helps scholarship students develop critical thinking skills http://[www.nzibo.org](http://www.nzibo.org)
* Facebook for Scholarship Biology <https://www.facebook.com/groups/1434168673514234/>
* Alison Campbell’s blog <http://sci.waikato.ac.nz/bioblog/> has useful insights for NCEA & schol bio and in 2024 she ran fortnightly tutorials for Scholarship students (see Schol FB).

**Chemistry**

* SCENZ is the national organisation representing secondary Chemistry Educators <https://nzic.org.nz/scenz/>
  + It’s a branch of NZIC which is the body representing professional chemists.
  + Membership gives you access to resources and exams.
  + SCENZ has NEX funding to deliver PLD – see regional reps named on the website
  + Find mentoring and advice too - see regional reps named on the website.
  + A combined ChemEd/Biolive conference is next expected in 2026
* To access
  + resources and PLD to do with NCEA changes, email  [scenz@gmail.com](mailto:scenz@gmail.com)
  + regular newsletters with info, resources & NZQA/MoE news, contact Ian with your school email address [ian.torrie@gmail.com](mailto:ian.torrie@gmail.com). Available to any chem teacher.
* Facebook: NZ chemistry teachers <https://www.facebook.com/groups/NZChemistryteachers/>
* Lisa Janek looks after a google drive with resources to share: <http://tinyurl.com/chemshare>
* Sarah Gaze shares pdfs of resources <http://gzscienceclassonline.weebly.com/>. To access editable copies of ppts, workbooks, resources, & OneNotes contact [sarahgaze6@gmail.com](mailto:sarahgaze6@gmail.com)

**EfS (Education for Sustainability)**

* NZAEE is the subject association for environmental education. <http://nzaee.org.nz/> . It provides access to a national network of educators, local branch activities, PLD via conferences, workshops and seminars, up-to-date news about environmental education and sustainability initiatives around the country, and a voice to Government about your issues.
* Facebook: <https://www.facebook.com/NZAssociationforEnvironmentalEducation>

Kiwi Conservation Club - KCC Northern <https://www.facebook.com/kccnorthern/>

Tread Lightly Caravan <https://www.facebook.com/treadlightlycaravan/>

* Bridget Glasgow is a secondary EfS facilitator & is happy to answer questions [bridget.glasgow31@gmail.com](mailto:bridget.glasgow31@gmail.com)
* Enviroschool resources are worth checking out too <http://www.enviroschools.org.nz/>

**ESS (Earth & Space Science)**

* ESSE is the subject association for ESS teachers. <https://www.earthspacescience.org.nz/>
  + ESSE provides PLD and help at <https://www.earthspacescience.org.nz/esse-help>
  + Regional Reps support teachers e.g. answer questions, help with moderation, help run PLD workshops. Access here <https://www.earthspacescience.org.nz/contact>
  + To access shared resources contact Jenny at [admin@earthspacescience.org.nz](mailto:admin@earthspacescience.org.nz)
  + Scholarship resources <https://www.earthspacescience.org.nz/resources/scholarship>
  + ESSE Facebook Page <https://www.facebook.com/groups/872599616153949/>
  + In some years ESSE runs a Geology day (with GNS)
* Facebook page for NZ **astronomy** educators <https://www.facebook.com/groups/astredu/>

**Physics**

* The NZ Institute of Physics is for professional physicists, including college teachers. <http://nzip.org.nz/>. Join up [here](https://nzip.org.nz/join-nzip/nzip-membership-information/), get added to the database [here](http://pldsupport@nzip.org.nz)
  + NZIP has NeX funding to provide PLD and support, sign up for this [here](https://nzip.org.nz/education/professional-development-support-for-teachers/)
  + They offer a [resource bank](http://www.physics.school.nz/) including QAAM’d resources & resources for Scholarship, as well as shared google drives [one](https://sites.google.com/view/uoaptd2017/google-drive-info) and [two](https://sites.google.com/view/physicsrealm/global-list).
  + NZIP is on Facebook <https://www.facebook.com/groups/719514905248361> andX/Twitter <https://twitter.com/nzphysics> and YouTube <https://www.youtube.com/channel/UCoAem0AV__zZE3iFR5jH7MA>
  + A course on Te Reo Māori for physics teachers <https://www.youtube.com/watch?v=ffoKNEZQslE>
  + Physikos conference will next be held in 2025
* FB:NZ Physics Teachers <https://www.facebook.com/groups/NewZealandPhysicsTeachers>
* As well as NZIP, Dave Corner is an experienced Physics teacher happy to answer email queries [crr@pakuranga.school.nz](mailto:crr@pakuranga.school.nz) .
* Otago Scholarship Physics FB page <https://www.facebook.com/OtagoScholarshipPhysics>

**Primary**

* NZAPSE is the association that supports primary science teachers, under the umbrella of NZASE https://nzapse.nzase.org.nz/ and contact [nzapse.nzase@gmail.com](mailto:nzapse.nzase@gmail.com)
* They send out a newsletter. Contact [nzapse.nzase@gmail.com](mailto:nzapse.nzase@gmail.com) to be added to the list
* Primary Science week is held week 3 of term 2 each year & NZAPSE offers resources, activities and webinars  <https://nzapse.nzase.org.nz/primary-science-week-2022/>
* Facebook: NZ Primary Science Teachers <https://www.facebook.com/groups/144591922894729/>
* [Science Alive for Educators](https://www.facebook.com/groups/860613651439148/?__cft__%5b0%5d=AZVQcYXD_oOvRswK_xDOK9ObbYU5s1L1aBPu11VmBFHma1OKyIh4Yc_gbppK1Gj4lZDIdo2P2--7ONA6Ct6jUlHB21EbeIHZtmFy682EJHeqa8ZtGKGk1u-89bXpK505p8z67dHfSYuMGHGJqM35KEnNjY8zXXOJCFks_OmlElvMyiLaKgTA6kK8v6IYVjOv7mgk-xfIkA68QbyxDHhC4IQl&__tn__=-UK-R) has a free learning portal

**Pūtaiao**

* Pauline Waiti manages Pūtaiao wāhanga ako for Kahui Pūtoi (online network) for teachers & kaiako of Science & Pūtaiao. [pauline.waiti@gmail.com](mailto:pauline.waiti@gmail.com)
* Facebook: Ako Panuku <https://www.facebook.com/pg/akopanuku/posts/?ref=page_internal>

Pūtaiao <https://www.facebook.com/groups/389168031181767/>

* Resources for new Pūtaiao standards can be found on Kauwhata Reo, an MoE website. <https://kauwhatareo.govt.nz/en/>

**Science**

* NZASE is the subject association for all science teachers <https://nzase.org.nz/> (info on p.1)
* Find out about PLD here <https://nzase.org.nz/nzase-network-expertise/>
* Facebook: NZ Science teachers. <https://www.facebook.com/groups/346737702172016/>
* Ang Whitlam runs a Google Folder for sharing resources <https://drive.google.com/drive/folders/16bnkea1OzIalrvj02qhVypfUC5yKz9Fl>

**Nature of Science (NoS)**

* Tahurangi nowholds some of the resourcesfrom
  + **Science Online** classroom-ready activities with a focus on the Nature of Science
  + **Science Capabilities,** whichbreak NoS into five key skills. The website explained each of these and showed how to incorporate them into our teaching.
  + If you want all of the old resources contact Mike (email below)

Go to <https://newzealandcurriculum.tahurangi.education.govt.nz/new-zealand-curriculum-online/learning-content-resources/science/5637144641.c>

* **Science Exemplar Matrices:**  These break down NoS into discrete skills in 4 different areas. Originally written for the 1994 curriculum these are still very useful for the 2007 curriculum. Still accessible as of 17-01-25, but may not be for much longer <https://www.tki.org.nz/r/assessment/exemplars/sci/matrices/index_e.html>
* **Webcasts** on the 5 science capabilities. Contact Mike (see footnote p5) to access these.
* **Upd8**: <http://www.upd8.org.uk/> This UK website has many interesting & varied activities for NoS - & is free to join.
* **Understanding science:** <https://undsci.berkeley.edu/teaching/1316_activities.php>
* **Connected** – this journal was a source of NZ science stories til end 2020. Sci capabilities focus 2013-2017. <https://instructionalseries.tki.org.nz/Instructional-Series/Connected> is still available as of 17-01-25. Tahurangi highlights 8 stories <https://newzealandcurriculum.tahurangi.education.govt.nz/science-in-the-school-journal-and-connected-series/5637207692.p>

**Technicians**

* STANZis the association for science technicians <https://stanz.nzase.org.nz>
  + Members can access SciTechTalk, a free email discussion, to get answers to Qs
  + Health & safety advice
  + Conferences every 2 years, next in 2025
  + Termly newsletter
* NZ technician’s Facebook Page <https://www.facebook.com/groups/842023323557957>

Info compiled by Mike Stone. Please contact [mikhal@actrix.co.nz](mailto:mikhal@actrix.co.nz) if there’s any mistakes.