

## Resources

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Teachers, did you make your own unit or activity or lesson plan for this field trip? If so please email it to us and we will add it to this section.

## Teacher PLD

- Watch the recorded web conference PLD for this field trip at <http://connect.vln.school.nz/p6erdjm7xho/> [1]

## Answers to Print and Copy Activities

- The Language of Location - [Word](#) [2] (282k) | [PDF](#) [3] (241k) | [Google doc](#) [4]
- Using Google Maps - [Word](#) [5] (1.4Mb) | [PDF](#) [6] (350k) | [Google doc](#) [7]
- Surveying Maths Problem - [PDF](#) [8] (500k)

## Student self assessments

Your students can complete the online [pre-test](#) [9] and [post-test](#) [10] student self-assessment forms for this field trip. Once completed you can email [barrie.matthews@core-ed.org](mailto:barrie.matthews@core-ed.org) [11] to have your class submissions extracted and emailed to you. It's OK if just some of your students have filled them in or if they have submitted either self assessment rather than both.

## Downloads

- Learn about GPS or Global Navigation Satellite Systems (GNSS) in the LINZ Survey toolbox module - [PDF](#) [12] (511k).

## Contributions

- **Generic Planning Sequence** for a LEARNZ virtual field trip - [Word](#) [13] (610k) | [PDF](#) [14] (233k) | [Google doc](#) [15].
- **EPIC**: Through [EPIC](#) [16] The Ministry of Education has paid a subscription on behalf of all registered New Zealand schools to access a range of quality, educational e-resources. For information about how to register with EPIC go to <http://www.epic.org.nz/> [16]. More information is at <https://www.tki.org.nz/epic2> [17]. If you are unsure if your school is registered ask your librarian or principal.
- **Video question sheet** - [Word](#) [18] (31k) | [PDF](#) [19] (217k) | [Google doc](#) [20] to use for each video (based on SOLO Taxonomy).
- **Audio activity**: Students can work on this activity while they listen to live or recorded audioconferences - [Word](#) [21] (25k) | [PDF](#) [22] (167k) | [Google Doc](#) [23]. Notes from these pages could be shared to help put together the class audioconference summary
- Do a class audioconference summary. Making a class summary of an audioconference is a great way of reviewing the information your students

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heard. It's easy to do, purely as some text, or as main facts on a picture background. Feel free to use the **audioconference summary sheet** - [Word](#) [24] (29k) | [PDF](#) [25] (114k) | [Google doc](#) [26]. We'd love to share your ideas so please send your class summary to [shelley.hersey@core-ed.org](mailto:shelley.hersey@core-ed.org) [27].

- Remember you can listen to the enhanced audioconferences again from the audio recordings if you want to gather more information.

## NCEA Resources

- Check out this [NCEA Internal Assessment Resource](#) [28] for Geography Level 1 'Applying Spatial Analysis, with direction, to solve a geographic problem using ArcGIS Online'

## Links

- Check out the [LINZ 3D flyover](#) [29] of the New Zealand continent
- Enter [The World of Digital Mapping](#) [30] and discover how technology is transforming maps
- Take a look at the [Unfolding the Map](#) [31] site
- [Explore your world](#) [32] with Google Geo Tools
- Watch the cool little Youtube clip about Geodesy - [NASA's Brief History of Geodesy](#) [33].
- Try the 3D modelling tools on [SketchUp](#) [34] and [3D Warehouse](#) [35]
- Check out [Eagle Technology and GIS in Schools](#) [36].
- [What is GIS?](#) [37]
- [Introduction to Using GIS in the Classroom](#) [38]
- [ArcGIS Online](#) [39] is software that is ready to use with nothing to install or setup. It allows you to effortlessly create and share maps via the internet, even embedding them in blogs, web pages, and web applications.
- ArcGIS for Desktop is software that enables you to visualize, question, analyze, interpret, and understand data, revealing relationships, patterns, and trends. Contact [gistraining@eagle.co.nz](mailto:gistraining@eagle.co.nz) [40] for more details.
- Watch this video on the [Geospatial Revolution](#) [41] from Penn State Public Broadcasting.
- Watch a [video from LINZ](#) [42] about what geospatial data is.
- Make your own map displays using [the LINZ Data Service](#) [43].
- Go to the [Land Information New Zealand](#) [44] website to learn more about LINZ and how they look after many of the official records about New Zealand's land features and boundaries.
- See a great [demonstration](#) [45] of the principle of using four satellites to determine a GPS location.
- Watch the comic [West Wing - Why are Maps Changing?](#) [46] Youtube video that questions the accuracy of the Mercator map projection.
- Find out about careers in surveying and the spatial industries at the [New Zealand Institute of Surveyors](#) [47] and [Careers NZ](#) [48] sites.
- **PDF documents:** To view or print out PDF documents you will need the Adobe Acrobat (PDF) Reader. This is available for **free** from the [Adobe](#)

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[website](#) [49].

**Source URL:** <https://www.learnz.org.nz/location162/resources>

### Links

[1] <http://connect.vln.school.nz/p6erdjm7xho/>

[2] <https://www.learnz.org.nz/sites/learnz.org.nz/files/the-language-of-location-answers.doc>

[3] <https://www.learnz.org.nz/sites/learnz.org.nz/files/the-language-of-location-answers.pdf>

[4] <https://docs.google.com/document/d/1bjscqSabCpREjSu9s1Q0pNNXuNpB6wf-f2eRwjlukyg/edit?usp=sharing>

[5]

<https://www.learnz.org.nz/sites/learnz.org.nz/files/reading-google-maps-answers.doc>

[6]

<https://www.learnz.org.nz/sites/learnz.org.nz/files/reading-google-maps-answers.pdf>

[7] [https://docs.google.com/document/d/1LpNpCEjJoyR4BNGTb60-Tajtf6Hhq2\\_WzejneagWoDA/edit?usp=sharing](https://docs.google.com/document/d/1LpNpCEjJoyR4BNGTb60-Tajtf6Hhq2_WzejneagWoDA/edit?usp=sharing)

[8] <https://www.learnz.org.nz/sites/learnz.org.nz/files/surveying-math-problem-answers.pdf>

[9] [https://docs.google.com/forms/d/100N-mrYYSnprWP\\_oZlgGjqYWbBx7mAE5w1EqS7gs\\_jg/viewform](https://docs.google.com/forms/d/100N-mrYYSnprWP_oZlgGjqYWbBx7mAE5w1EqS7gs_jg/viewform)

[10] <https://docs.google.com/a/core-ed.ac.nz/forms/d/1Jw5FG9Ut-ZLOD7j67s4L6BvjS-plljZjT5iqwblf8RY/viewform>

[11] <mailto:barrie.matthews@core-ed.org>

[12] <https://www.learnz.org.nz/sites/learnz.org.nz/files/gnss.pdf>

[13]

<https://www.learnz.org.nz/sites/learnz.org.nz/files/shelleys-planning-sequence.doc>

[14]

<https://www.learnz.org.nz/sites/learnz.org.nz/files/shelleys-planning-sequence.pdf>

[15] [https://docs.google.com/document/d/1eCN1e2b\\_vpx-AehtSjz5ckicY97qFgFG0usXT9gZw2w/edit?usp=sharing](https://docs.google.com/document/d/1eCN1e2b_vpx-AehtSjz5ckicY97qFgFG0usXT9gZw2w/edit?usp=sharing)

[16] <http://www.epic.org.nz/>

[17] <https://www.tki.org.nz/epic2>

[18]

<https://www.learnz.org.nz/sites/learnz.org.nz/files/xmlsitemap/video-questions.docx>

[19]

<https://www.learnz.org.nz/sites/learnz.org.nz/files/xmlsitemap/video-questions.pdf>

[20] [https://docs.google.com/document/d/1SexAl-3mXoEDF\\_XED5fxWw0fr8xrg9frT2GNoL0yeSo/edit?usp=sharing](https://docs.google.com/document/d/1SexAl-3mXoEDF_XED5fxWw0fr8xrg9frT2GNoL0yeSo/edit?usp=sharing)

[21] [https://www.learnz.org.nz/sites/learnz.org.nz/files/audio-activity\\_3.doc](https://www.learnz.org.nz/sites/learnz.org.nz/files/audio-activity_3.doc)

[22] [https://www.learnz.org.nz/sites/learnz.org.nz/files/audio-activity\\_1.pdf](https://www.learnz.org.nz/sites/learnz.org.nz/files/audio-activity_1.pdf)

[23] <https://docs.google.com/document/d/1tfBwuvECwUrV6KW1WZcCYAgTYulkEbEg6dj6UaUrYRM/edit?usp=sharing>

[24] <https://www.learnz.org.nz/sites/learnz.org.nz/files/xmlsitemap/audioconference->

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summary.doc

[25] <https://www.learnz.org.nz/sites/learnz.org.nz/files/xmlsitemap/audioconference-summary.pdf>

[26] <https://docs.google.com/document/d/15dvKNJv6k7ZuzdlqQWiz5HqWhlB6Zw9NnCARFEHIQC8/edit?usp=sharing>

[27] <mailto:shelley.hersey@core-ed.org>

[28] <http://gisinschools-nz.maps.arcgis.com/home/item.html?id=078ca3744f9944a0a0b2b0b96bda0847>

[29] <http://www.linz.govt.nz/about-linz/what-were-doing/projects/new-zealand-continental-shelf-project/new-zealand-continent-3d-flyover>

[30] <http://maps.arcgis.com/apps/MapJournal/index.html?appid=530226e83d774db9a07e1bef82204b11>

[31] <https://unfoldingmap.wordpress.com/>

[32]

<http://www.summitstuff.com/mapping-magic/exploring-your-world-with-mymaps>

[33] <http://www.youtube.com/watch?v=Ramawc3uKgM>

[34] <http://www.sketchup.com/learn/videos>

[35] <https://3dwarehouse.sketchup.com/collection.html?id=ufe6ea0ef-0901-4bc6-9b8b-02f9df243d40>

[36] <http://gisinschools-nz.maps.arcgis.com/home/>

[37] <http://www.esri.com/what-is-gis>

[38] <http://training.esri.com/gateway/index.cfm?fa=catalog.webCourseDetail&courseid=2198>

[39] <http://www.arcgis.com/home/webmap/viewer.html?useExisting=1>

[40] <mailto:gistraining@eagle.co.nz>

[41] <http://geospatialrevolution.psu.edu/episode1>

[42] <http://www.linz.govt.nz/geospatial-office/about/projects-and-news/spatial-data-infrastructure/video>

[43] <http://data.linz.govt.nz/>

[44] <http://www.linz.govt.nz/find-out/resources-for-schools>

[45] <http://en.wikipedia.org/wiki/File:ConstellationGPS.gif>

[46]

[http://www.youtube.com/watch?feature=player\\_embedded&v=n8zBC2dvERM](http://www.youtube.com/watch?feature=player_embedded&v=n8zBC2dvERM)

[47] <http://www.surveyors.org.nz/>

[48] <http://www.careers.govt.nz/jobs/infrastructure/geospatial-specialist/>

[49] <http://www.adobe.com/products/acrobat/readstep2.html>