Free expert led webinars for NCEA science subjects 2022

These online sessions will be streamed through YouTube and are aimed towards supporting students 3-5 days ahead of each exam. Questions can be posted in chat and a moderator will put these towards the presenter. A recording of each session will be accessible through YouTube.

A massive thank you to the teachers who have given up their time, and are willing to share their expertise, to make this possible. Special thanks to [StudyIt](https://studyit.govt.nz/) for funding this initiative.

Please circulate this living document widely among teachers and students.

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| Subject | Paper & exam date | Webinar Date | Time | Link | Additional resources | Presenter |
| L1 Science | Genetics Tues 15th Nov | Thurs 10th Nov | 4-5pm | <https://youtu.be/w_yrRW52x7M> | [YouTube](https://youtube.com/playlist?list=PLjzu1dZDnxXikazP6rXX37-l1MiMO5e6D) | Douglas Walker |
| Acids & Bases Tues 15th Nov | Friday 11th Nov | 5-6.00pm | <https://youtu.be/EkfBzcWyR7E> |
| Mechanics Tues 15th Nov | Friday 11th Nov | 6.10-7.10pm | <https://youtu.be/cAtldbqhFP4> |
| L1 AgHort | Soil Tues 8 Nov | Wednesday 2nd Nov | 5 - 6 pm | <https://youtu.be/AXsMrnA4k3Y> | [Previous Webinars](https://youtube.com/playlist?list=PLjzu1dZDnxXgMfzkqUTWjsR8_lMdTNzMi) | Melanie Simmons |
| Livestock Tues 8 Nov | Tuesday 1st Nov | 4 - 5 pm | <https://youtu.be/cCnfMjJVUjk> |
| Plants Tues 8 Nov | Wednesday 2nd Nov | 3.30 - 4.30 | <https://youtu.be/z1huwig72is> |
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| L2 Biology | Cell Processes Thurs 24 Nov | Friday 18th November | 7pm - 8:30pm | <https://youtu.be/fZ6E144QSWg> |  | Amy Rowe  WGC |
| Genetic Variation & Change Thurs 24 Nov | Monday 21st November | 7pm - 8pm | <https://youtu.be/v6FYkPc9g9Y> |  |
| Gene Expression Thurs 24 Nov | Sunday 20th November | 7pm - 8pm | <https://youtu.be/fSmM1rUv7PI> |  |
| L2 Chemistry | Structure & Bonding Thurs 17th Nov | Saturday 12th Nov | 4- 5pm | <https://youtu.be/q87TmWsX804> |  | Sujata Rajagopal  Taita |
| Organic Compounds Thurs 17th Nov | Saturday 12th Nov | 5.15- 6.15pm | <https://youtu.be/_C9ux70LQ7E> |  |
| Chemical Reactivity Thurs 17th Nov | Monday 14th Nov | 5.30- 6.30pm | <https://youtu.be/8q-xkgcj1jQ> |  |
| L2 Physics | Mechanics Mon 7th Nov | Thurs 3rd Nov | 6-7pm | <https://youtu.be/Og54BESDzEs> | [YouTube](https://www.youtube.com/channel/UCHZCuNmJD5Hk21ZugyWnHWg/playlists?view=50&sort=dd&shelf_id=2)  [Folder](https://drive.google.com/drive/u/1/folders/1lkZgCwtwkMhZLkHfmGRfFlBEJavrhxEE) | Andrew Sargent  Te Kura |
| Electricity Mon 7th Nov | Friday 4th Nov | 6-7pm | <https://youtu.be/8ntiI43EKtQ> |
| Waves Mon 7th Nov | Friday 4th Nov | 7.10-8.10pm | <https://youtu.be/IX0922gWYio> |
| L2 ESS | Geology & Stars Tues 22nd Nov | Sunday 20 November | 10.am - 12 pm | <https://youtu.be/e0WSQCVZsJE> | [ESS Resources](https://drive.google.com/drive/folders/1CRTHs0HRVDDp5XZOISvbM0pTXxIBQluB?usp=sharing) | Jenny Pollock |
| L2 AgHort | Physical Factors Wed 30th Nov | Thursday 24th of November | 1-2pm | <https://youtu.be/r-6S3kZruRY> |  | Kerry Allen  St Pauls |
| Livestock Growth and Development Wed 30th Nov | Wednesday the 23rd of November | 2-3pm | <https://youtu.be/5-UGV83qpMs> |  |
| Land Use Wed 30th Nov | Monday the 28th of November | 2-3pm | <https://youtu.be/i44wwU7822o> |  |
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| L3 Biology | Plants & Animals Wed 16th Nov | Thurs 10th Nov | 6-7pm | <https://youtu.be/JtNIudF53oM> |  | Emma Campbell |
| Speciation Wed 16th Nov | Sunday 13th Nov | 6-7pm | <https://youtu.be/hBb4joeRdZ8> |  |
| Human Evolution Wed 16th Nov | Monday 14th Nov | 4-5pm | <https://youtu.be/wlVZgG7-M5A> |  |
| L3 Chemistry | Thermochemistry Fri 18th Nov | Tues 15th Nov | 6-7pm | <https://youtu.be/HFyJY2BEoho> |  | Delene Holm |
| Organic Compounds Fri 18th Nov | Mon 14th Nov | 7:15-8:15pm | <https://youtu.be/XncOfcCto2s> |  |
| Aqueous Systems Fri 18th Nov | Wed 16th Nov | 6-7pm | <https://youtu.be/qVdCxAB_Ooc> |  |
| L3 Physics | Mechanics Thurs 24th Nov | Mon 21st Nov | 6-7pm | <https://youtu.be/hk7qiKAk0WQ> | [YouTube](https://www.youtube.com/channel/UCHZCuNmJD5Hk21ZugyWnHWg/playlists?view=50&sort=dd&shelf_id=3)  [Folder](https://drive.google.com/drive/u/1/folders/1ubfw1pLCy_DPq7FDwYumd0ziuuE9cgQk) | Andrew Sargent  Te Kura |
| Electricity Thurs 24th Nov | Tues 22nd Nov | 6-7pm | <https://youtu.be/n2wwR-4NM0Y> |
| Waves Thurs 24th Nov | Tues 22nd Nov | 7.10pm-8.10pm | <https://youtu.be/YkG6rO1Mkfw> |
| L3 ESS | Oceans Thurs 1st Dec | Mon 28th TBC | 4-5pm TBC | <https://youtu.be/6quvKTdulw8> | [ESS Resources](https://drive.google.com/drive/folders/1CRTHs0HRVDDp5XZOISvbM0pTXxIBQluB?usp=sharing) | Keith Hartle |
|  | Atmosphere | Mon 28th TBC | 5.15-6.15pm TBC | <https://youtu.be/fE1EMzkq21g> |  |
| L3 AgHort | Primary Production Environ-mental Issue Mon 14th Nov | Mon 7th Nov | 4-5pm | <https://youtu.be/DdFliSwttDY> |  | Lauren Roberts  Lincoln Uni |
| Market forces & Primary Products Mon 14th Nov | Thursday 10th November | 2.10 - 2.50 pm (approx) | <https://youtu.be/ev7fIoxfqno> |  | Ross Redpath |
| Production Process |  | 3pm - 3.40pm (approx) | <https://youtu.be/Cg42qapD6Sk> |  |
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| Scholarship Biology | Biology Wed 9th Nov | What examiners are looking for | These webinars have been recorded and are available to watch | [What examiners are looking for](https://drive.google.com/file/d/1bgTW6Ub17WoRDbhdoxEFsphDKi4uYAH2/view?usp=sharing) | Download these files to improve playback | Alison Campbell |
| Critical Thinking | [Critical Thinking](https://drive.google.com/file/d/1j_yg_23WuA7eOyLQEY4rCexnhmbGaglw/view?usp=sharing) |
| 2022 Q1 | [2022 Question 1](https://drive.google.com/file/d/1a0ES-RNZBU6HsD7oiuaWaodpLn8ysrGV/view?usp=sharing) |
| 2022 Q2 | [2022 Question 2](https://drive.google.com/file/d/1EnsO4avtaxlqDKw82PrHnPUPLYE_hwJe/view?usp=sharing) |
| Scholarship Chemistry | Chemistry Mon 21st Nov | Developing Skills Friday 11 Nov | 10am - 11 | <https://youtu.be/P9PAM_EabUg> |  | Suzanne Boniface |
| Saturday 19th | 10am-12 | <https://youtu.be/sGfwf_znvRk> |  |
| Scholarship Physics | Physics Thurs 17th Nov | Saturday 12 Nov | 10 am to 12 | <https://youtu.be/eEqBaWjwyZw> |  | David Housden |
| Scholarship ESS | ESS  Fri 2nd Dec | Monday 28th | 10.00 am - 1 pm | <https://youtu.be/NMfWL0ClEQw> | [ESS Resources](https://drive.google.com/drive/folders/1CRTHs0HRVDDp5XZOISvbM0pTXxIBQluB?usp=sharing) | Jenny Pollock |
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| Scholarship | AgHort Mon 7th Nov | Thursday 3rd November | 3pm - 5pm | <https://youtu.be/a80urS2fjho> |  | Jared Fritchley |

Here is a link to the NZQA [Exam timetable](https://www.nzqa.govt.nz/ncea/ncea-exams-and-portfolios/external/national-secondary-examinations-timetable/)

Other useful links:

[StudyIt](https://studyit.govt.nz/)

[No Brain Too Small](https://www.nobraintoosmall.co.nz/)

[NZQA Science Subject Resources](https://www.nzqa.govt.nz/ncea/subjects/science/levels/)

[Physics Realm](https://sites.google.com/view/physicsrealm/global-list?authuser=0)