Help for science learning online

A number of companies have made their software/resources available free for teachers and their students sent home from school due to COVID-19

**Practical advice**

* Advice for getting started. <https://spark.adobe.com/video/Sg3I77H4i0QIU?fbclid=IwAR37ZdZu_8VqD31RZQRH1laN7mk_Ql7sZEMKfqRunWwaPU72BsKRuvU0wXg>
* More advice, from Stanford <https://docs.google.com/document/d/1ccsudB2vwZ_GJYoKlFzGbtnmftGcXwCIwxzf-jkkoCU/preview?fbclid=IwAR1NWusqECLTiRk0ShTvN8gaQQ7NopRzJUm1awkRQGfGVhQaekDOB7WQs8M>
* Shared my Lesson **virtual conference** - Free PLD seminars Mar 24 – 26 <https://sharemylesson.com/vc2020?utm_source=SilverpopMailing&utm_medium=email&utm_campaign=enews_031820_vc2020%20(1)%20remainder&utm_content=&spMailingID=42068734&spUserID=OTAzMzYyMTIzMDc1S0&spJobID=1721938902&spReportId=MTcyMTkzODkwMgS2>
* How did the **trial go at Wellington College**? <https://www.rnz.co.nz/audio/player?audio_id=2018739469>

**Resources**

SCIENCE-SPECIFIC

* **Concord**’s free STEM resources for online teaching <https://concord.org/online-learning-resources/?utm_source=The+Concord+Consortium+List&utm_campaign=6df550180b-Online_Learning_Resources_20200318&utm_medium=email&utm_term=0_4ca9f8d47e-6df550180b-313227193>
* **Learn Coach** Free access til 1 May. NZ/NCEA based. <https://learncoach.com/ncea>
* **Mystery Science** <https://mysteryscience.com/school-closure-planning>
* **NASA** <https://www.nasa.gov/>
* **Nature Detectives** <http://www.treetoolsforschools.org.uk/menu/?_ga=2.257726595.929900858.1584663507-91902496.1584663507>
* **No Brain Too small** – NZ**,** yr 9 & 10 Sci, NCEA <http://www.nobraintoosmall.co.nz/index.html>
* **Pathwayz – a** NZ sciences site<https://www.pathwayz.org/>
* **Phet animations** <https://phet.colorado.edu/>
* [Dave Thrasher’s list](https://sites.google.com/view/physicsrealm/home) of **physics** video’s, animations & websites that you may find useful
* **Pitsco** <https://resources.pitsco.com/stem-at-home>
* **Positive Physics** - <https://www.positivephysics.org/?fbclid=IwAR0Gh-5MabfWOnr_r8tmMqY0WfWiUPB1j2D291KwzJ_5Bpboe_UUCT4TaDA>
* **Primary Science Teaching Trust** [info@pstt.org.uk](mailto:info@pstt.org.uk) sign up to mailing list
* **Royal Soc Chem** - How to teach **practical chemistry** remotely <https://edu.rsc.org/remote-teaching-support/how-to-teach-practical-chemistry-remotely/4011361.article?utm_source=house-list&utm_medium=email&utm_campaign=monthly-alert>
* **SciPAD online check at** [https://vimeo.com/398686575](https://us-west-2.protection.sophos.com?d=vimeo.com&u=aHR0cHM6Ly92aW1lby5jb20vMzk4Njg2NTc1&e=c2hhcm1hLm5hbmRAc3RjdXRoYmVydHMuc2Nob29sLm56&h=11e3bdbaa75e4075a4f9036f8b43168c&t=VE9sL3MwQzJyOTNYWmV2N1MrMzJSMlJWUjlENk1vMFV0Q0F1eWFOTGovYz0=) and  [https://online.scipad.co.nz](https://us-west-2.protection.sophos.com?d=scipad.co.nz&u=aHR0cHM6Ly9vbmxpbmUuc2NpcGFkLmNvLm56Lw==&e=c2hhcm1hLm5hbmRAc3RjdXRoYmVydHMuc2Nob29sLm56&h=11e3bdbaa75e4075a4f9036f8b43168c&t=eXFEWDJBcGxRWkpRSngyTStLcklQcXVCcWJqVzJsWGFIbHFIUHlZZVNmWT0=). This is a beta phase product. One person per school sign up [here](https://docs.google.com/forms/d/e/1FAIpQLSdmA3juWqTewUc2IXj-aXzerDK3z8gQf1y892brH2Ql-6Bupg/viewform)
* **STEM online -** UoA for mechanics L1 – L3 <https://www.stemonline.auckland.ac.nz/>
* **Stile** [https://stileeducation.com/](https://stileeducation.com/?fbclid=IwAR02_RXcYRsQAmtx1ZkH-0Qj0norFNB7g-aO8hWyvp06Hs5Kfv4EZIMSSJ4) have opened up their resources until July to help ease the pressure. If you're keen to give it a go, contact Tony at [tony.osullivan@stileeducation.com](mailto:tony.osullivan@stileeducation.com)
* **Study Time –** another NZ site<https://studytime.co.nz/guides/level-1/science/?fbclid=IwAR0gyNmO94JULJC87pdkCclvYZ5weS5yz6ovVvG7KJJKtyiH1pUt2B0jSRQ>
* **Teach engineering** – challenges and resources for all levels. <https://www.teachengineering.org/#homeschool>
* **Teach It Sci (UK)** <https://www.teachitscience.co.uk>

GENERAL BUT THERE WILL BE SCIENCE IN HERE TOO:

* **AfT** – American Federation of Teachers <https://www.aft.org/>
* **Brainpop** <https://twitter.com/brainpop/status/1239187335885074433?ref_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed&ref_url=https%3A%2F%2Fwakelet.com%2Fwake%2Ffc1be896-0ff1-431d-a3b8-b10febdc3256>
* **Byju’s** – Indian Learning application with large repositories of educational content tailored for different grades and learning levels. <https://byjus.com/>
* **Discovery Education** – Free resources and lessons about viruses and outbreaks for different grade levels. <https://app.discoveryeducation.com/learn/channels/channel/9ccf523a-5b7a-4856-ae5c-602e40d1e50f>
* **Education Perfect** <https://epforlearning.com/>
* **Epic –** Digital library for primary school students. <https://www.getepic.com/>
* **Khan Academy** – Free online courses, lessons and practice. <https://www.khanacademy.org/>
* TED talk from Khan Academy creator, [Sal Khan: Let's use video to reinvent education](https://www.ted.com/talks/sal_khan_let_s_use_video_to_reinvent_education).
* [Set yourself up as a teacher on Khan Academy](https://www.khanacademy.org/)
* [Khan Academy - the YouTube Channel](https://www.youtube.com/user/khanacademy).
* **KitKit School** - Tablet-based learning suite with a comprehensive curriculum spanning early childhood through early primary levels. <https://enuma.com/>
* **LabXchange** – Curated & user-created digital learning content <https://about.labxchange.org/>
* **National Geographic** <https://www.nationalgeographic.com/>
* **Newsela.** <https://newsela.com/>
* A selection of some of **NZ Geographic‘s** [most popular longform journalism to while away your time.](https://www.nzgeo.com/great-reads/?t=28159_6ce38406db942e23d97137753bbacef0&campaign_id=)
* **OneCourse** – Child-focused application to deliver reading, writing and numeracy education. <https://onebillion.org/onecourse/app/>
* **PBSKids** <https://pbskids.org/>
* **Quizlet** – Learning flashcards & games for multiple subjects <https://quizlet.com/>
* **Resource Bank** to Help Schools Affected by COVID-19: A repository for teachers to share resources with each other. To help, please open the google folder, select a subject folder, drag and drop the resource into the folder and give it an easy-to-search name. <https://drive.google.com/drive/folders/1cp9IctN3KUmlczAljS4dV9jfMBzHYWke>
* **Royal Institution of Australia** <https://education.australiascience.tv/register/?utm_source=n_RiAus_Master_Mailing_List&utm_campaign=2c00279ca8-EMAIL_CAMPAIGN_2019_11_5_education_COPY_01&utm_medium=email&utm_term=0_f41a1e8160-2c00279ca8-180823013>
* **Scholastic** <https://www.news10.com/news/scholastic-releases-free-daily-courses-for-kids-at-home-for-covid-19-school-closures/>
* **Share My Lesson** <https://sharemylesson.com/coronavirus/remote>
* **Story Online** [storylineonline.net](https://t.co/6Pp9KDLB0x)
* Water Centre for **Systems thinking** offers 29 courses on the Habits, tools and archetypes of systems thinking. All courses include practice exercises and written response opportunities. There are also lesson plans and facilitation guides. [Sign up here.](https://waterscenterst.us20.list-manage.com/track/click?u=dfa24cd618a58a04c8714c00a&id=f8e3a1c3a7&e=916d264ae5) This could serve as a very viable opportunity for your students as you seek to provide the highest quality virtual experiences for them and prepare your curriculum for online delivery methods.
* **Studyladder** - A comprehensive NZ program of online educational activities for students aged 4 to 12, mapped to the curriculum. <https://www.studyladder.co.nz/info/school-closures>
* **Sunshine Online** – animated and interactive learning in literacy and maths (NZ) <https://www.sunshineonline.co.nz/index.php>
* **TedEd** <https://ed.ted.com/educator> - free animated lessons from [**TED-Ed**](https://e.ted.com/ed.ted.com/lessons---1eyJ0cmFja2luZyI6eyJkaWQiOjkxNTkxNjc2fSwicHJvdG9jb2wiOiJodHRwczoiLCJzZWFyY2giOiI-1dXRtX3NvdXJjZT1yZWNvbW1lbmRhdGlvbiZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj1leHBsb3JlJnV0bV90ZXJtPWNvdmlkIn0-2.l1GknatBFFb-1HLw9aHdngkwylOB3k-1yEk11J8Ckck7M-2). If you're an educator, [**learn more**](https://e.ted.com/ed.ted.com/educator---1eyJ0cmFja2luZyI6eyJkaWQiOjkxNTkxNjc2fSwicHJvdG9jb2wiOiJodHRwczoiLCJzZWFyY2giOiI-1dXRtX3NvdXJjZT1yZWNvbW1lbmRhdGlvbiZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj1leHBsb3JlJnV0bV90ZXJtPWNvdmlkIn0-2.NKh5OHogI7gAo3Ep5kGSfvVDBsktFo5MaT2ZwNdUHg8-2) about how to create your own TED-Ed lessons.
* **TES**: <https://www.tes.com/teaching-resource/pshe-home-learning-pack-12268315?fbclid=IwAR2Tkuy_dpybIvPy7fEbROEsqDi4OtYsdLE1A4ZfrF1TLAJElnnzfZsW1Hgr>
* **Thunderbolt KMids -** South African, but links nicely to NZ curriculum. Grade 4 is equivalent to Year 5 and so on. <http://www.thunderboltkids.co.za/index.html>
* **We Are Teachers** <https://www.weareteachers.com/free-online-learning-resources/#secondary>
* **YouTube** – Repository of educational videos & learning channels. <https://www.youtube.com/>
* The WeCreateEdu community of edutubers has released a spreadsheet of educational **YouTube channels with their subject areas** & age levels. Check it out here: <https://docs.google.com/spreadsheets/d/1K-4RkOpGH3sBhSuqebeSe-PCsV3LmwQzLqBGDveJEWM/edit?fbclid=IwAR03EMn6jRxnMdIr3igG73mIvHO_p6kMJTxyVsz1YFtbxq68GLaha3Lmhi0#gid=0>

**Software tools to create digital learning content**

* **Adobe Distance Learning Tools** <https://edex.adobe.com/distance-learning>
* **Buncee** – For creating and sharing visual representations of learning content, including media-rich lessons, reports, newsletters and presentations. <https://app.edu.buncee.com/>
* Aaron Blaise is offering his **Fundamentals of Animation** course for free. <https://creatureartteacher.com/product-category/special-sale/>
* **EdPuzzle** – Video lesson creation software. <https://edpuzzle.com/>
* **Flipgrid** <https://info.flipgrid.com/>
* **Kaltura** – Video management and creation tools with integration options for various learning management systems. <https://corp.kaltura.com/solutions/education/>
* **Nearpod** – Software to create lessons with informative and interactive assessment activities. <https://nearpod.com/international?utm_expid=.0dkcszR9SP2jr9OT7IpJhA.1&utm_referrer=>
* The people at [@Screencastify](https://twitter.com/Screencastify) are going to offer their premium access which allows for unlimited recording to teachers for FREE! Not seen yet.
* **Squigl** – transforms speech or text into animated videos. <https://squiglit.com/what-is-squigl/>
* **Thinglink** – create interactive images, videos etc. <https://www.thinglink.com/>

**Digital learning management systems**

* **Blackboard** <https://www.blackboard.com/>
* **Edmodo** <https://new.edmodo.com/?go2url=%2Fhome>
* **Google Classroom** <https://classroom.google.com/u/0/h>
  + [Google Online Learning - How to](https://teachercenter.withgoogle.com/first-day-trainings/welcome-to-classroom)
  + [Google Meet](http://meet.google.com/).
  + [11 tips for using Google Classroom](https://www.tes.com/news/coronavirus-11-tips-using-google-classroom?utm_campaign=14119361&utm_content=Daily-Register-190320&utm_source=exact-target&utm_medium=email) - focused on setting this up with your classes
* **Moodle** <https://moodle.org/>
* **Schoology** <https://www.schoology.com/>
* **Seesaw** <https://web.seesaw.me/>
* **Skooler** Turns Microsoft Office software into an education platform. <https://skooler.com/>
* **We Are Teachers**.  <https://www.weareteachers.com/free-online-learning-resources/#secondary>

**Platforms for live-video communication**

* **Hangouts Meet** –integrated with other Google tools <https://gsuite.google.com/products/meet/>
* **Teams** – integrated with Microsoft Office software. <https://www.microsoft.com/en-us/education/products/teams>
* **ZOOM** for online meetings of up to 100 <https://zoom.us/>
  + More on Zoom <https://www.forbes.com/sites/alexkonrad/2020/03/13/zoom-video-coronavirus-eric-yuan-schools/#60389e534e71>

And to put a smile on the dial: <https://www.insidehighered.com/quicktakes/2020/03/17/%E2%80%98i-will-survive%E2%80%99-teaching-online?fbclid=IwAR1rKGUuTvCbxInSx8wkYmML8ogTBIaTasZQkSFqwZju78ciicS03QdXHwY>

If you know of any other resources/sites please share.