



# Learning at Home

Support

## SCIENCE

Years  
11 to 12

For parents and carers



### What you will need:

In order that your young person can remain in contact with their teacher and class - a phone or internet-enabled device may be needed for this purpose. They may need access to the school's agreed means of electronic file sharing and contact information such as the teacher's e-mail address. Find out what Learning Management System or document sharing platform your young person's class will be using.

If possible, provide learning materials and a space for your young person to move or work online. They should also have:

- an easy to clean space separated from food preparation to complete practical work safely with wet materials
- all the work they have had assessed so far such as assignments, tests and projects.

Each science course has a detailed list of content studied. This can be found on the TASC website: <https://www.tasc.tas.gov.au/students/courses/science/>

Each teacher will have recorded what is to be covered throughout the year – if your young person does not have this information, please contact the school.



### How you can help:

Science is a way of understanding the world. It can be used as a way for your young person to unpack and think about what is happening around them now. The current situation provides many examples of how scientists work to meet the needs of society.

Your young person's science teacher will provide materials or recommend texts to best to support the course they are studying.

Encourage your learner to maintain connection with science related to their course, for example:

- summarise, represent and apply this knowledge in ways that suit them and the topic they are covering
- creating a scrapbook or journal of current events and science news
- work with other learners when applying theoretical understanding
- practise detailed observation and questioning of the world over a period of time and relate it to scientific theory
- discuss how the science they are studying explains and can be applied to the world that you share

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- revise and correct work they have completed that has been already been assessed by a teacher

Your young person will have to be creative to meet the practical and/or fieldwork component of their course(s). They will need show initiative, be flexible and have an open mind. It is likely that they will need to negotiate with their teacher about their practical learning strategies.



## Complementary activities

Depending on the Science course, there are a number of resources and activities that can support learners to deepen their skills, knowledge and understandings. You can encourage your young person to:

- use online tutorials such as Khan Academy ([www.khanacademy.org/science](http://www.khanacademy.org/science)).
- participate in citizen science such as Zooniverse ([www.zooniverse.org](http://www.zooniverse.org)) and record progress
- contact a scientist on social media – twitter has a particularly large group of scientists who may respond
- Ask Dr. Karl ([drkarl.com/](http://drkarl.com/)) - he often responds really quickly and loves student questions
- take a virtual field trip or museum visit, such as:
  - 19 Smithsonian Museums, Galleries and Zoo - [www.si.edu/Museums](http://www.si.edu/Museums)
  - The Field Museum - [www.fieldmuseum.org/science/research](http://www.fieldmuseum.org/science/research)
  - The Science Museum - [www.sciencemuseum.org.uk/objects-and-stories](http://www.sciencemuseum.org.uk/objects-and-stories)
  - Virtual field trips - [www.vickiblackwell.com/vft.html](http://www.vickiblackwell.com/vft.html)
- Observe and manipulate online simulations such as:
  - Physics simulations - [www.myphysicslab.com/](http://www.myphysicslab.com/)
  - PhET science simulations - [phet.colorado.edu/en/simulations/category/html](http://phet.colorado.edu/en/simulations/category/html)
  - Biology Games and Simulations - [askabiologist.asu.edu/games-and-simulations](http://askabiologist.asu.edu/games-and-simulations)
  - Chemistry simulations - [chemcollective.org/vlabs](http://chemcollective.org/vlabs)
  - Ecosystem simulations - [www.scholastic.com/teachers/activities/teaching-content/ecosystems-1-1-studyjams-interactive-science-activities/](http://www.scholastic.com/teachers/activities/teaching-content/ecosystems-1-1-studyjams-interactive-science-activities/)

## Links to more information:

- [Learning at home](http://www.education.tas.gov.au/learning-at-home/)<sup>1</sup> on the Department of Education website

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