# symbiosis

## Year 9 science

### Australian curriculum Learning objectives

* [ACSSU176](http://www.australiancurriculum.edu.au/Elements/594e0d44-6d17-4081-9db8-9e4600a2dbd6)[[1]](#footnote-1) Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems.

### Resources required

* [Symbiosis: a surprising tale of species cooperation](http://www.youtube.com/watch?v=2AM3ARs9MMg&feature=BFa&list=PL45DD1CA57AA3122A&lf=plpp_video)[[2]](#footnote-2) captioned online video. (Duration: 2 minutes)
* [Student worksheets](http://www.capthat.com.au/sites/www.capthat.com.au/files/Symbiosis%20worksheet.docx)
* Student computers

Lesson outcome: Students learn about symbiosis and develop a broad understanding of when it occurs.

#### Lesson outline:

1. Explain that students are going to be focusing on how organisms interact and that their first lesson on this topic will focus on the process of symbiosis.
2. Provide students with the worksheet and the opportunity to look over questions on the first page.
3. Play symbiosis video for students.
4. Students begin to complete first page of worksheet either independently or in pairs.
5. Replay video for students.
6. Students have the opportunity to ask questions, before completing the first page of worksheet.
7. Review answers as class.
8. Explain to students that they now must research their own example of symbiosis taking place using their computers and that they should use the information they find to fill out the second part of the worksheet.
9. Students complete research and worksheet.

### Homework/extension

Students prepare to present the information they have found to the class in the following lesson.

### Opportunity for further activity

Students research the following different types of symbiotic relationships: *mutualism, commensalism,* and *parasitism.*

1. http://www.australiancurriculum.edu.au/Elements/594e0d44-6d17-4081-9db8-9e4600a2dbd6 [↑](#footnote-ref-1)
2. http://www.youtube.com/watch?v=2AM3ARs9MMg&feature=BFa&list=PL45DD1CA57AA3122A&lf=plpp\_video [↑](#footnote-ref-2)