

## Gonville & Caius Natural Sciences Challenge 2019

The Natural Sciences course in Cambridge covers a wide range of biological and physical science subjects. The course includes the core sciences that are commonly found as post-16 qualifications—namely Physics, Chemistry and Biology—but also subjects that might be less familiar, such as Pharmacology, Physiology, Materials Science and Earth Sciences. The Cambridge course encourages students to see links between the sciences, which is often how the most exciting discoveries are made.

If you are a Year 12 student interested in Natural Sciences, you are probably studying more than one of the core science subjects. This year's Gonville & Caius Natural Sciences Challenge asks you to **research and present a scientific topic that spans across your studies of the science subjects**. For example, where and how do concepts learned in Chemistry appear in your studies of Biology? Or how do concepts learned in Physics underpin some topic that you have studied in Chemistry?

The task is to **develop a classroom presentation and/or activity that could be delivered to Year 12 students**. The content should be suitable for science students with your level of knowledge and experience. The aim is to inspire students to see new links between scientific topics in their current courses. The planned lesson or activity can take any form you wish. The only requirement is that it must be feasible to implement it in a typical secondary school.

### Your Challenge entry should include:

- (1) The activity in the form of a written document or PowerPoint presentation. The layout should be clear, but the academic content is the most important thing.
- (2) Explanatory notes that describe your intentions behind the activity. What is it intended to teach? What scientific points should be emphasised? How might the activity be extended to challenge more able pupils?

Please submit your entry in electronic form (as a PDF) to [schoolsprizes@cai.cam.ac.uk](mailto:schoolsprizes@cai.cam.ac.uk). If your activity involves some practical element, the necessary materials or equipment must be easily accessible to anyone. Entries should arrive by the deadline of Friday 31st May 2019. Please do not put your name or your school's name on your entry, but instead complete a cover sheet. The completed cover sheet must be sent with your submission as a separate file. All entrants will be notified with the results of the competition by early September.