



## Science for Home Educating Families, Term 1, 2014

This term we will be offering a class in scientific methods, suitable for Year 10 students. This class is specifically targetted at students who will be taking NCEA Level 1 or Level 2 science classes, and will be looking in particular at the practical investigation standards. The focus will be on developing, designing, carrying out and writing up experiments, with an emphasis on NCEA expectations.

At the end of this course, students will be able to plan, conduct and write up a scientific investigation in a manner that will satisfy NCEA Level 1 or 2 science course standards.

### About the teacher

This class will be taught by Steve McCabe. Steve has taught in Japan and the United States, and currently teaches physics and general science at a New Zealand high school.

### Cost

\$80 per student for the term.

Classes run from 4:30 to 5:30 on Thursday afternoons, and are taught in Pukekohe.

Date	Topic	Details
13/02/2014	<b>The scientific method</b>	What science can and can't establish; cause and effect; identifying and formulating a hypothesis.
20/02/2014		Planning an experiment; identifying variables.
27/02/2014		Planning a method; describing a method; implementing a method.
6/3/2014	<b>Hooke's Law</b>	Planning and carrying out a scientific investigation.
13/3/2014		Processing data; presenting results.
20/3/2014		Formulating a conclusion; writing up a scientific investigation.
27/3/2014	<b>Ohm's Law</b>	Putting it together — planning, conducting, writing up and reviewing a physics investigation.
3/4/2014		Other organs: liver, kidneys, brain, pancreas.

*Dates subject to change.*