

# SCIENCE

Illustrations include a DNA double helix, a microscope, a molecular structure, a beaker with blue liquid, and the equation  $F=ma$ .

November  
Newsletter  
Term 4

**Kia Ora & Welcome** to the final edition of our Science Newsletter. This year has gone extremely fast and we hope you have enjoyed seeing what our students have been getting up to this year in the Science Department @ Otorohanga College! All the best to our Year 13's—good luck for your future endeavours.

Mr Burt, Mrs Pemberton, Miss Pearse, Miss Lund, Mr Buckley, Mrs Sneddon + Mr Harris.

## 9KR

To finish off the year we are looking at the topic of space. We aim to look at the huge distances that space covers as well as comparing the giant stars and planets in our solar system. To help us get our heads around this we will make models of planets, space rockets and satellites. We will also look at how previous generations have used the stars for sign posts in the night sky as they explored the oceans and new lands. To round it all off we hope to go to the Space Centre in Kihikihi in week 7.

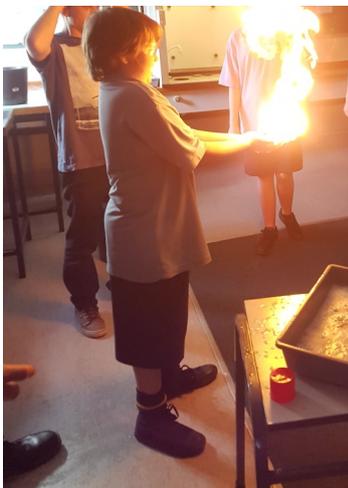
## 9GM

This term our topic has been Waves and Energy. We have enjoyed using the light boxes to look at how light is reflected. Our final topic for the year will be Astronomy.



## 9TU

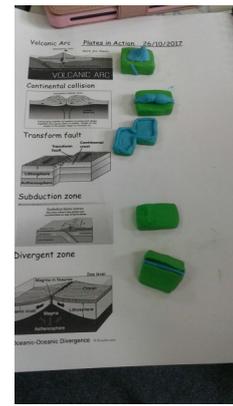
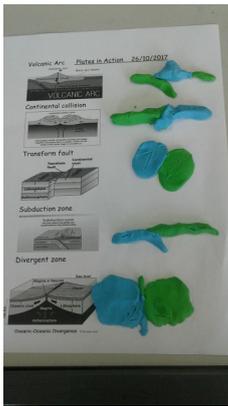
FUN IN THE LAB!



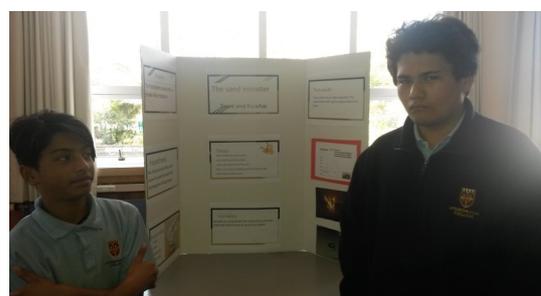
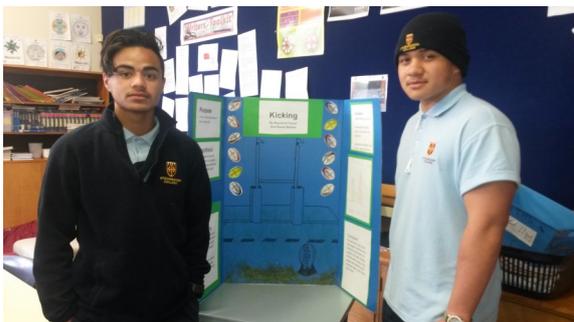
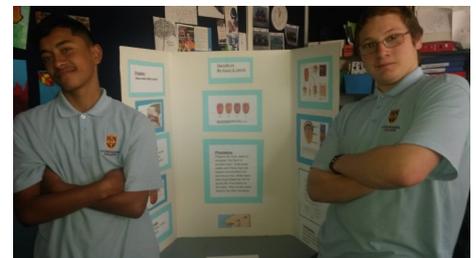
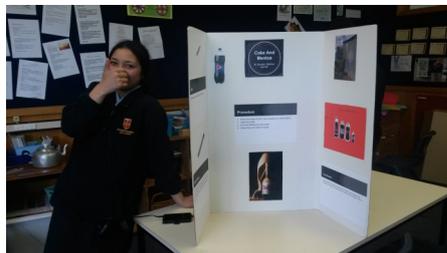
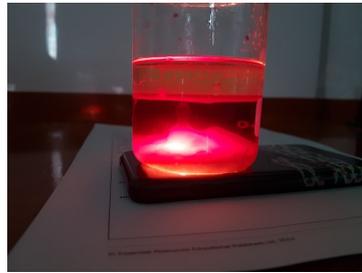
# Year 10 SCIENCE

## 10RM

The pics below are of 10RM. They used modelling clay to illustrate 5 different Tectonic Plate actions. Using 2 colours and mixing them together, their creations were distinctly different yet were made to show each action; volcanic arc, continental collision, transform fault, subduction zone and divergent zone. Some were more interested in recreating an active volcano!



## 10SF+ 10WW—Pictures of what we have been up to....



# Year 11 SCIENCE

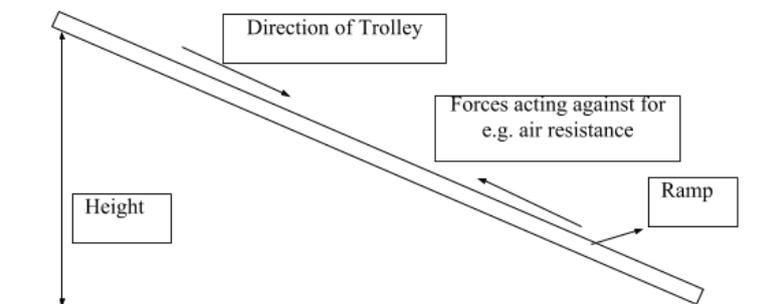
## SC11W

Our memories (Highlights and lowlights) from science 2017...

- Eating burnt honeycomb
- Libby licking litmus paper
- When we made Oxygen rockets and stuck a match to it.... BOOM!
- Taking a field trip to Main North road
- Eating coffee beans
- Using the Police speedometers on Main North road
- Catching the paper on fire (after acquiring the matches)
- Failing both my exams #riptomysoul
- Eating sausage sizzles
- Covering everything in that paper stuff
- Getting to know such awesome students!

## SC12W

This term we have been working on a Physics Investigation!



**“Science is more than a school subject, or the periodic table, or the properties of waves. It is an approach to the world, a critical way to understand and explore and engage with the world, and then have the capacity to change that world, and to share this accumulated knowledge. It’s a mind-set that says we that can use reason and logic and honest inquiry to reach new conclusions and solve big problems.”** - President *Barack Obama*

# Senior Biology

## BIO21+22W

### Student thoughts....

Reagan - My favourite part of biology was the field trip to the Pureora Podocarp Forest to take temperature and light measurements and to analyse each canopy.

Andrew - Bio was a very interesting experience as I learnt the reasons for things that we take for granted and don't think about much.

Michael - My favourite part about biology this year was my teacher, since he has been "hands on" with our learning rather than resorting to books and videos, it has been a breath of fresh air to actually have a "hands on" teacher.

Emily - Our adventure to the forest and finding tardigrades.



## BIO31+32W

### Bio in nutshell 2017....

- Shannon - Biology was the knowledge that I needed for university
- Sophie - Evolution, and mutation is making me migration
- Josh - Biology was pretty brain stimulating
- Patric - I will do well due to it being productive and stimulating
- Olivia - Just had a great time in class
- TeAo - Hard as it was, nah it was pretty alright aye
- Jaylin Driver - Bio went well this year

Biology was a helpful subject which allowed us many possibilities for our futures and for that we are all very thankful for Mr Burt. Bio was also a great time We had lots of fun We had lots of fun only doing 10% of all the pushups you gave us :) I hope you can see this sir cause we know you have some eyesight issues From Jess, Sharnae, Kristal, Tori and Miclaire

# Senior Physics

## PHY21+31W

### Student thoughts...

- Andrew - I enjoyed Physics because I find it very relevant to our world and you can use much of the stuff we learn in our day to day life
- Simon - Yeah physics is pretty good
- Reagan - I enjoyed the practical experiments that we did in physics even if they didn't work
- Kaylee - please come back next year we don't want a new teacher
  
- Jake - Electricity challenged me mentally and physically, great learning experience
- Joel - Hard, boring, too many formulae that did my head in, great learning environment
- Patric - hard, fun most of the time except for the torture, I am happy to pass
- Stephen - tough but a good challenge and learning atmosphere



# Senior Chemistry

## CHEM21W

### Student highlights for 2017...

Simon setting fire to wall in C2 - Andrew

Completing amazing experiments - Simon, Callen, Dylan + Lockey

Experiments Titration - Sophie

Playdough models - Mallory

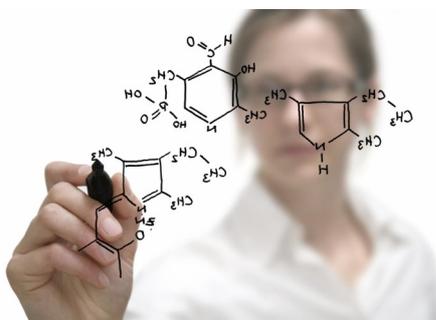
Chocolate - could not better - Emily

The Vibe of the Science Family - Ashlee

Working hard and succeeding - Patricia

Chemquest - Reagan

Peace and happiness - Dylan



## CHEM31W

### Student highlights of 2017...

Achieving all assessments at Merit or Excellence - Joel

Weirdly getting excellences in assessments - Matt

All goods - Patric

Everyday is a highlight especially passing assessments - Stephen

Food and company and high grades - Jake

Improving grades from last year - Dallas

More Chemistry - Shannon

Falling into pond while Kayaking - Sharnae

Sampling pond water - Jessica  
Fireworks - Olivia

Spending time with a such a lovely bunch of people - Mrs Pemberton

