

Term 1- Chemistry and Maths

Lesson #	Subject	Topic
1	N/A	Introduction Lesson Sarah and Lukas
2	Maths	Maths vocabulary and counting big numbers
3	Maths	Statistics
4	Maths	Averages
5	Chemistry	Zooming in, GCSE pgs. 142-143. Introduction to molecules
6	Chemistry	The big new idea, GCSE pgs. 144-146. Introduction to polymers
7	Chemistry	Experiment: Making models of compounds.
8	Chemistry	Crude Oil, GCSE pgs. 152-153. Learning about crude oil and how it is made useful
9	Chemistry/Maths	Review lesson

Term 2- Physics and Presentations

Lesson #	Subject	Topic
1	N/A	Oba Introduction Lesson
2	Presentations	Begin writing a script for a given topic of research
3	Physics	Kinematics experiment. Using basic kinematics to predict the landing spot of a launched ball
4	Physics/Presentations	Finish experiment; work on first draft of scripts
5	Astrophysics	Earth in the Universe, GCSE pgs. 74, 76-77. Introduction to astrophysics and the Earth's place in the universe
6	Astrophysics	Beyond the Solar system, GCSE pgs. 79-81. Teaching about galactic scale and observational time lag
7	Physics of Light	English student exchange. Build your own spectrometer experiment
8	Presentations	Presentation memorization check and speaking activity
9	Astrophysics	How did the Universe begin? GCSE pgs. 82-83. Big bang and the age of the universe
10	Presentations	Student presentations

Term 3- Biology and Research Poster Presentations

Science English (4th period)			Introduction to Science (5th period)		
Lesson	Subject	Topic	Lesson	Subject	Topic
1	Biology	Same but different. GCSE pgs. 16-17. Introduction to genetics and DNA	1	Group research	Visit research groups of 2nd year students
2	Biology	DNA Extraction Experiment. Extracting DNA from a Banana	2	Poster	Poster making (in Japanese)
3	Poster	Begin Translating Japanese research poster to English	3	Poster	Submit posters (in Japanese)

4	Poster	Continue work on making (English) poster. Submit first draft	4	Presentation	with Hyogo high school students at Kobe Convention Center (in Japanese)
5	Poster	Give back corrected drafts. Continue poster work and talk about poster presentation setup	5	Poster	Continue (English) poster work and talk about poster presentation setup
6	Poster	Poster presentations (in English)	6	Poster	Poster presentations (in English)
7	Science	Review for Test	7	Review	Questionnaire, grouping