2016-2017 Science English Goals and Outline Summarized

Science English Goals

1. For the students to learn basic Science vocabulary within Physics, mathematics, chemistry and biology.
2. For the students to be able to learn presentation skills and presenting in English.
3. For the students to be able to communicate using basic science language.
4. Be able to explain scientific concepts using English.

English Conversation Goals

1. Students should be able to express their basic ideas and opinions in English.
2. Students should be able to understand and respond in English. (Especially each other!)

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Other Goals

1. To foster a love of science and English

Materials

GCSE science foundation textbook

Science Dialogue- guest lecturer

Term 1- Math's and Physics

Lesson #	Subject	Conversation Strategies	Topic
1	N/A	N/A	Introduction Lesson, Student outline
2	Maths	Lesson 1: Rejoinders	Maths vocabulary and counting big numbers.
3	Maths	Lesson 2: Follow-up Questions	Averages of sets and frequency tables
4	Maths	Lesson 6: Expressing Probability	Probability
5	Astrophysics	Lesson 4: Clarification Questions	Introduction to the Universe: Seeing Stars, Time and Space GCSE (pgs. 74-77) Solar System Formation
6	Astrophysics	N/A	Spectroscopy introduction **Experiment:** building a simple spectrometer
7	Astrophysics	N/A	Finish experiment How Big is the Universe? (78-81)
8	Astrophysics	N/A	The Exploding Universe (82-83)
9	Phsyics/Maths	N/A	Review lesson, Introduce Individual presentation: script writing
10	Reading Skills	N/A	Students learn and practice scan reading

Term 2- Chemistry and Presentations

Lesson #	Subject	Topic
1	Introduction Lesson/ Presentations	Review: Rejoinders and Follow-up questions Introduce new ALT. Review summer homework. Work on presentations.
2	Chemistry/ presentations	Zooming in, (pgs. 142-143) Introduction to molecules. Writing Final Script. Watch Excerpts from Bill Nye: Atoms
3	Chemistry	The Big New Idea, (pgs. 144-145), Introduction to polymers, Model Building
4	Chemistry	Review last lessons material, Molecules big and small (pgs. 146-148)
5	CGSB Visit/Guest lecture	Chatum Grammar Students visit, and Guest lecture **Experiment:** Making silly putty with Dr. Youlee Hong
6	Presentations	Review molecules big and small Practice how to speak: intonation and enunciation, and how to apply this to your presentation.
7	Review/ presentations	Script Practice and Test Review
8	Presentations	Student Presentations
9	Presentations	Student presentations
10	Presentations	Semi-Final Presentations introduce welcome video project
11	Christmas	Plan welcome video/ Christmas lesson

Term 3- Biology and Research Poster Presentations

Lesson #	Subject	Topic
1	Biology	DNA, Same and Different (Pgs. 16-17)
2	Biology	**Experiment:** Extracting Banana's DNA
3	Poster	Begin Translating Japanese Research Poster to English
4	Poster 2 hrs.	Continue working on English research poster Collect and check poster
5	Poster 2hrs.	Hand back poster. Students continue working on the poster. Hand in Final version.
7	Review	Review for Science Test, practice poster presentations
6	Poster 2hrs.	Poster presentations