Science English 2018 – 2019 Goals and Outlines

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 perform scientific poster presentations to native English speakers.
- 4. For the students to be able to communicate using basic science language.
- 5. Be able to explain scientific concepts using English.

English Conversation Goals

- 1. Students should be able to have a daily conversation in English, decline offers, ask for permission and ask a favor.
- 2. Students should be able to listen to a conversation and ask relevant questions about the conversation.
- 3. Students should be able to express their ideas and opinions in English.
- 4. Students should be able to understand and respond in English. (Especially each other!)

Other Goals

- 1. To foster a love of science and English
- 2. For the students to learn to think critically.

Materials

GCSE science foundation textbook

Lesson Outline

Year	SE	Semester	Lesson	
Focus				
Materials				

Time	Activity	Teachers' Role	Students Activities	Notes
5 min	Conversation	Connect English conversation to Science English through	Students would practice	English Only
	Activity	explanation and activities	English conversation	
10 min	Vocabulary Sheet	Students are given a vocabulary worksheet to work through.	-	_
10 - 15	Lecture or Book	ALT lecture on the topic/ or work time.	-	_
min	Work			
30 min	Work	Students would use this time to work on the semesters subject	-	_
5 min	Homework/ Extra		-	_
	Lesson time			

English Only: When English only is written on the board, students should use only English. This will be enforced with an English challenge. Example English Challenges: write a sentence using this grammar point, sing a song, give a 30s speech, say the alphabet backwards, tongue twister, guess how to pronounce a word, answer a question in English.

Term 1 - Maths and Physics

Lesson #	Subject	Topic
1	N/A	Introduction to SE Lesson, ALT Introductions, English only rule, and "I don't understand"
		system.
2	Maths	Introduction of Maths and Statistics, vocabulary and counting big numbers.
3	Maths	Maths Bingo!, averages of sets and frequency tables
4	Maths	Outliers and Boxplots, Probability
5	Reading Skills	Students learn and practice scan reading
	Physics	Introduction to the Universe:
		Seeing Stars, Time and Space (pgs. 74-77)
6	Physics	Measuring distance of stars: Parallax and Brightness Methods
		Beyond the Solar System? (pgs. 78-79)
7	Physics	The beginning of the Universe.
		The formation of stars and the solar system.
8	Mars Lander	Mars Lander Experiment
9	Exam	Review test material
10	Next semester	Introduction to next semesters individual presentations

Start
Plan for
Guest
Lecturer

Term 2 - Chemistry and Presentations

Lesson #	Subject	Topic
1	Introduction	Emma Introduction and Chemistry Introduction. Explain props, timed readings and collect
	Lesson/	scripts.
	Presentations	
2	Chemistry/	Atoms and Molecules - Zooming in (pgs. 142-143)
	presentations	Hand back draft scripts. Peer check. Writing Final Script.
3	Chemistry/	Molecules big and Small (pgs. 144-146) and Polymers
	presentations	Peer review of Presentations and Collect final scripts.
4	Chemistry/	Designer Stuff (pgs. 147-149)
	presentations	Cross links and Plasticizers
		Intonation and Voice in Presentations and Return scripts
5	Chemistry/	Designer Polymers Continued
	presentations	TED Talk video
~	Guest Lecture	Guest Lecture on Microscopy
6	Review/	Chemistry test review game and test preparation.
	presentations	Presentation order and practice.
7	Presentations	Student Presentations
8	Presentations	Student Presentations
9	Presentations	Semi-Final Presentations

Term 3 - Biology and Research Poster Presentations

Lesson #	Subject	Topic
1	Biology	Introduction to Biology
		DNA, Same and Different (pgs. 16-17)
		Introduce welcome video
2	Banana	Extracting DNA from a Banana experiment
	Experiment	
3	Biology	Review Banana Experiment
		Biology test review game
4	Poster	Introduction to English Poster Presentations
	Presentations	Translating of Posters
5	Poster	Preparation of Scripts and Q+A's
	Presentation	Finalising of Posters
		Filming of 'Welcome Video'
6 th March		Poster Presentation session with native speakers