

2017-2018 Science English Goals and Outline

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 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 basic 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

Science Dialogue- guest lecturer

Lesson Outline

Lesson	
Focus	

Date	
Lesson Length	65 min

Time	Activity	Task/Instructions	Students
5 min	Conversation Activity	Students would practice English conversation Connect English conversation to Science English through explanation and activities	
10 min	Vocabulary Sheet	Students are given a vocabulary worksheet to work through.	
10-15min	Lecture or Book Work	ALT lecture on the topic/ or work time.	
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- Math's and Physics

Lesson #	Subject	Conversation Strategies	Topic
1	N/A	If you don't understand....	Introduction Lesson, Student outline, Ashida Survey, English only rule
2	Maths	Lesson 1: Active Listening	Maths vocabulary and counting big numbers.
3	Maths	Lesson 2: Follow-up Questions	Averages of sets and frequency tables
4	Maths	Lesson 4: Responding with Details	Probability
5	Reading Skills Astrophysics		Students learn and practice scan reading Introduction to the Universe: Seeing Stars, Time and Space (pgs. 74-77)
6	Astrophysics	Conversation Review: Active Listening and Follow up questions	Solar System Formation How Big is the Universe? (78-81)
7	Astrophysics	Conversation Review	Measuring distance of stars: Parallax and Brightness method
8	Astrophysics	Group conversation	How big is the universe? How did the universe begin?
9	Kinematics	Giving Opinions and Reasons	Review test material
10	Mars Lander		Mars Lander Experiment
11	Next semester intro	Supporting reasons	Intro to next semesters individual presentations

Start Plan for Guest Lecturer
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Science English Semester 2- Chemistry and Presentations

Lesson #	Subject	Topic
1	Introduction Lesson/ Presentations	Michael Introduction. Explain props, timed reading. Making English corrections, then collect scripts.
2	Chemistry/ presentations	Introduction to chemistry. Zooming in P142-143 Hand back draft scripts. Peer check. Writing Final Script.
3	Chemistry	The Big New Idea, GCSE pgs. 144-145. Introduction to polymers. Monomers -> polymers. Collect final scripts.
4	Guest Speaker	Coordination Chemistry Lecture and experiment
5	Chemistry	Molecules big and Small pgs. 146-148 Return Final scripts.
6	Presentations	Practice how to speak: intonation and enunciation, and how to apply this to presentations
7	Review/ presentations	TED Talk video Chemistry test review game and test preparation
8	Presentations	Student Presentations
9	Presentations	Student Presentations
10	Presentations	Semi-Final Presentations

Term 3- Biology and Research Poster Presentations

Lesson #	Subject	Topic
1	Biology	DNA, Same and Different (Pgs. 16-17) Introduce welcome video
2	Banana Experiment	Extracting DNA from a Banana experiment
3	Biology	Review Banana Experiment Biology test review game
4	Poster 2 hr.	Students start translating their posters into English
5	Poster 2 hr.	Poster translation
6	Review	Poster translation Film welcome video Review for Science Test Poster Deadline
5 th March		Poster session