

Course syllabus - Sciences Maestros Higher and Lower (plan docente)

Course Title: Cursos de Inmersión en Lengua Inglesa - Maestros Sciences

Level: A2-C2

Duration: 40 hours (class time)

Student profile:

This course is for students who have a special interest or need to improve their English language knowledge with a special focus on science (The course is especially designed for those maestros who will be required to teach a science based subject using English).

Course Objectives: -GROUP SESSIONS

- To improve oral fluency and comprehension.
- To improve on such essential communication skills as debating, discussing, presenting, and reasoning based on topics from sciences.
- To consolidate and learn vocabulary that can be applied to various aspects of science grounded subjects.
- To consolidate and reinforce existing vocabulary and structures through practical application of the language with a focus on participative communication.
- To allow the student to acquire confidence to speak in public in a variety of settings using specific English.
- To learn about and discuss a broad range of subjects from a variety of science based topics.
- To study and, in some cases, practice the writing skills needed for academic and professional application within this field.

- ONE TO ONE SESSIONS

- Presenting language or concepts to students in an interactive way.
- Encouraging practice through activities.
- Learning positive correction techniques.

Topics:

Statistics and data, presentations, psychology and criminology, experiments and the scientific method, computing and I.T, modern health threats, environmental problems, biotechnology and biomedical engineering, job applications and interview skills, population growth and diminishing resources, inventions.

Grammatical content:

Grammar structures will be practiced during the course through practical application. Specifically needed language structures will be incorporated into the topics.

One-to-one element:

Participants on the maestros courses will attend two 'one-to-one' sessions per day. These sessions will explore methodology behind English language teaching, and give the student the chance to practice with this methodology.

Methodology:

The methodology used is the communicative approach with a very strong emphasis on total participation. Students will be encouraged to actively participate at all stages of the course to maximize their oral use of the language.

New language and structures are taught through elicitation and the use of the language in context. Students are then helped to assimilate these new elements through natural practice (both teacher led and free practice activities).



Maestros Science - Day 1 - Monday

08.30 - 09.00: Breakfast

09:00-10:30 Level testing:

Teachers use prepared questions and test approx. 5 students each.
 While oral tests are being conducted, students are completing a written test.
 Students are graded numerically, with these provisional grades noted.
 *After class on Monday, teachers will review level grades with students' performance in class.
 Any changes will be entered in the Amended level evaluation" form.

10:30-11:30 Ice-breaker games (in groups)

Getting to know one another: Students work in pairs to obtain information about each other (10 min)
 Presentations: Each student must present their partner to the rest of the group.

11:30-11:45 Break

11.45 - 14.15: Presentations:

Topics:	Good presentations and good speakers Different types of presentations Topics Dos and Don'ts of presentations Powerpoint pros and cons Structure of a presentation
Objectives:	Making sure your presentation is tailored to the audience Talking about the most important aspects of a presentation Discussing the Dos and Don'ts of public speaking Discussing and learning non verbal communication Talking about the content and structure of your presentation
Grammar:	Phrasal verbs

14.15 - 15.30: Lunch with teachers

15.30 - 18.00: Talking numbers

Topics:	Importance of statistics Graph types Data and mathematical functions Surveys and data collection
Objectives:	Think about contexts where statistics are important Discuss what statistics you trust and mistrust Learn the names of different types of graphs Practice describing data and mathematical functions Use statistics to support a debate Discuss the role of surveys in data collection Think about the best practices for designing a survey Design your own survey and collect data from your classmates
Grammar:	Conjunctions

18.00 - 18.30: Break

18.30 - 20.30: 20.30 - 21.30: 21.30: 23.00:	Group activity: Dinner with teachers Group activity
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11.45 - 14.00: 1 to 1 session 1: Teaching techniques - introducing

15.30 - 17:45: 1 to 1 session 2: Demo classessing



Maestros Science - Day 2 - Tuesday

08.30 - 09.00: Breakfast

09.00 - 11.30: Psychology and Criminology

Topics:	<p>Homework check and review</p> <p>The Branches of psychology and common treatments and problems Current trends of medication Group Psychology Mental disorders in Cinema</p>
Objectives:	<p>Psychology and Criminology Discuss the principal branches of psychology and how they are practiced Consider the treatments for common psychological problems Discuss common behavioral problems, treatments & potential social stigma Debate the current trend of medicating ADHD and depression Discuss group think, peer pressure and bullying Consider the representation of mental disorders in cinema Discuss the relationship between psychology and criminology Consider whether brain scans can predict criminal behavior Take a personality test inspired by Carl Jung & Isabel Briggs Myers' Typology</p>
Grammar:	<p>Read about famous psychology experiments Phrasal Verbs</p>

11:30-11:45 Break

11.45 - 14.15: Eureka! - Famous Experiments in the Past and Today

Topics:	<p>The scientific method Experiments and equipment Facts and hypotheses Scientific writing</p>
Objectives:	<p>Famous experiments Discuss the scientific method Discuss experiments from your studies or degree Learn the names of basic laboratory equipment Think about the difference between a fact and a hypothesis Design an experiment to test your own hypothesis Discuss the Dos and Don'ts of scientific writing Compare two examples of scientific abstracts Discuss famous scientific experiments, including Newton's discovery of the Laws of Motion, Archimedes' Principle, the Laws of Mendelian Inheritance, & more</p>
Grammar:	<p>Precise language</p>

14.15 - 15.30: Lunch with teachers

15.30 - 18.00: Computing and Information Technology

Topics:	<p>IT and modern life The internet and technology used in education Social media and addiction Technology in medicine</p>
Objectives:	<p>Discuss the influence of the computing and information technology on modern life Discuss the ways that you use the internet, and any specialized technology used in your degree Study vocabulary for the components of a computer Interpret quotations by famous figures about technology Discuss the symptoms of social media addiction and how it can be cured Participate in a role play about the value of digital whiteboards, tablets, and other kinds of educational technology Consider the influence of technology on medicine Research important figures from major technology companies</p>
Grammar:	<p>Phrasal verbs</p>

18.00 - 18.30: Break

18.30 - 20.30: **Group activity:**
20.30 - 21.30: Dinner with teachers
21.30: 23.00: **Group activity**

11.45 - 14.00: 1 to 1 session 1:
Teaching techniques - Concept internalization

15.30 - 17:45:
1 to 1 session 2:
Demo classing



Maestros Science - Day 3 - Wednesday

08.30 - 09.00: Breakfast

09.00 - 11.30: Modern Health Threats

Topics: **Homework check and review**
 Health threats in various parts of the world
 Common diseases and symptoms
 Lifestyle related diseases - Healthy life style
 Welfare states and health systems

Objectives: Learn some common health and nutrition proverbs
 Discuss health threats in developed, developing and underdeveloped countries
 Learn the names of some common diseases and discuss their symptoms
 Discuss obesity and other lifestyle diseases
 Think about ways to improve Britain's Five-a-Day Campaign and develop a healthy lifestyle plan of your own
 Consider the concept of a "welfare state" and weigh the pros and cons of the Spanish health system
 Debate the issue of healthcare for tourists
 Act as a politician, & develop a policy proposal to treat modern health problems

11.30-11:45 Break

11.45 - 14.15: The Changing World I - Environment, Global Warming and Natural Disasters

Topics: Social issues and the environment
 The history of our planet
 Environmental problems & Global warming
 Helping save the planet

Objectives: Discuss contemporary social issues and whether the environment is considered a priority
 Discuss important geologic milestones in the earth's history
 Brainstorm environmental problems, their causes and solutions
 Learn vocabulary for natural disasters and key historical examples
 Discuss what to pack in an emergency kit
 Read about the causes and evidence of global warming, and prepare a mock presentation to world leaders
 Consider the representation of environmental issues in cinema
 Think about what ordinary people can do to help the environment

Grammar: Describing trends

14.15 - 15.30: Lunch with teachers

15.30 - 18.00: Biotechnology and Biomedical Engineering

Topics: Biotechnology and biomedical engineering
 Vaccines and the history of vaccines
 Genetic modification in animals, humans, and food
 Hospitals and medical treatments
 The Human Genome project

Objectives: Define biotechnology, biomedical engineering, and think about their applications in the past and present
 Read about the history of vaccines
 Learn basic vocabulary for biology, including the names of the parts of a cell
 Discuss amazing examples of genetically modified animals
 Consider the ethics of human genetic modification
 Weigh the pros and cons of genetically modified foods
 Read about impressive developments in biomedical engineering, Participate in a role play comparing different types of hospitals & medical treatments
 Learn basic vocabulary to describe a hospital
 Research the Human Genome Project

Grammar: Phrasal verbs

18.00 - 18.30: Break

18.30 - 20.30: **Group activity:**
 20.30 - 21.30: Dinner with teachers
 21.30: 23.00: **Group activity**

11.45 - 14.00: 1 to 1 session 1:
 Teaching techniques - Free speaking activities

15.30 - 17:45:
 1 to 1 session 2:
 Demo classing

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Maestros Science - Day 4 - Thursday

08.30 - 09.00: Breakfast

09.00 - 11.30: Job Applications and Interview Skills

Topics: **Homework check and review**
Jobs
Career paths for science based education
Job applications, CVs, Interviews
Evaluating cover letters and candidates

Objectives: Review basic vocabulary for jobs and interviews
Think about what career paths exist for someone with your qualifications
Discuss what factors you take into account when considering a job opportunity
Learn what documents you need to send with a job application
Evaluate a cover letter, and evaluate several imaginary candidates for a sample job description
Learn how to describe your strengths, weaknesses and skills
Think about how to sell yourself effectively in an interview
Interview a peer, and participate in a practice interview
Learn basic language for telephone interviews
Practice writing a CV in English

Grammar: Adjectives and prepositions

11:30-11:45 Break

11.45 - 14.15: The Changing World II: Population Growth and Energy Needs

Topics: Global population
Diminishing resources

Objectives: Renewable/nonrenewable energy and nuclear energy
Discuss global population growth in recent years and consider experts' predictions for the future
Think about the relationship between population growth, energy, and diminishing natural resources
Learn about sources of renewable and nonrenewable energy, and compare different countries' approach to the energy problem
Weigh the pros and cons of nuclear energy
Learn how to describe the atom
Participate in a role play
Research current events related to this topic

Grammar: Phrasal verbs related to resources

14.15 - 15.30: Lunch with teachers

15.30 - 18.00: Necessity is the Mother of Invention

Topics: **Homework check and review**
Great inventions
Spanish inventions
Metric vs Imperial
Ergonomics

Objectives: Advertising and marketing
Debate the world's greatest inventions and test your knowledge with an Inventions Quiz
Discuss famous Spanish inventions and accidental products, and attempt to sell them to your classmates
Learn common conversions between the Imperial and Metric systems
Discuss the principles of ergonomics and interesting historical examples
Discuss characteristics of advertisements
Learn some idioms that are common in advertising
Invent a product that solves an everyday problem and market it to your classmates
Research some of the most important inventions of today – apps!

Grammar: Phrasal verbs

18.00 - 18.30: Break

18.30 - 20.30: **Group activity:**
20.30 - 21.30: Dinner with teachers
21.30: 23.00: **Group activity**

11.45 - 14.00: 1 to 1 session 1 :
Teaching techniques - Correction Techniques

15.30 - 17:45:
1 to 1 session 2: Reading



Maestros Science - Day 5 - Friday

08.30 - 09.00: Breakfast

09.00 - 11.30: Student presentations

Students, in their groups perform the presentations they have been working on as an on-going homework activity.

They will receive feedback from both teacher and classmates.

11.30-11:45 Break

11.30 - 14.15: Professional and Practice

Objective: Session dedicated to the following:
Revision and consolidation of topics seen during the week
Debate and Discussion on topics chosen by the students
Professional language: Students will look at elements of Professional English such as:

Topics:

- Cross cultural awareness in the professional environment.
- Meetings
- Telephone skills.

(from the provided materials)

14.15 - 15.30: Lunch with teachers

15.30 - 17.00: FINAL EXAM AND EVALUTATIONS

17.00 - 18:00: Performance of project + Revision and consolidation

Student will perform the group representation that they have been working on during the afternoon sessions from Monday to Thursday in front of their peers.

7 stage activity spread to review and consolidate the language seen over the duration of the course.

18.00 Finish

11.45 - 14.00: 1 to 1 session 1:
Teaching techniques - Demo Class - reading

15.30 - 17:45:
1 to 1 session 2: Feedback/
Review

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