

# Maestros - English

## Course syllabus - Sciences Maestros Higher and Lower

(plan docente)

**Course Title:** Cursos de Inmersión en Lengua Inglesa 2016 -  
Maestros Sciences

**Level:** A2+ -S2

**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:

<b>Topics:</b>	Good presentations and good speakers Different types of presentations Topics Dos and Don'ts of presentations Powerpoint pros and cons Structure of a presentation
<b>Objectives:</b>	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
<b>Grammar:</b>	Talking about the content and structure of your presentation Phrasal verbs

14.15 - 15.30: Lunch with teachers

15.30 - 18.00: Talking numbers

<b>Topics:</b>	Importance of statistics Graph types Data and mathematical functions Surveys and data collection
<b>Objectives:</b>	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
<b>Grammar:</b>	Design your own survey and collect data from your classmates Conjunctions

18.00 - 18.30: Break

18.30 - 20.30:	<b>Group activity:</b>
20.30 - 21.30:	Dinner with teachers
21.30: 23.00:	<b>Group activity</b>

11.45 - 14.00: 1 to 1 session 1: Teaching techniques - Introduction

15.30 - 17.45: 1 to 1 session 2: Demo Classrooms

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# Maestros Science - Day 2 - Tuesday

08.30 - 09.00: Breakfast

09.00 - 11.30: Psychology and Criminology

**Topics:** **Homework check and review**  
 The Branches of psychology and common treatments and problems  
 Current trends of medication  
 Group Psychology  
 Mental disorders in Cinema

**Objectives:** 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  
 Read about famous psychology experiments

**Grammar:** Phrasal Verbs

11.30-11.45 Break

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

**Topics:** The scientific method  
 Experiments and equipment  
 Facts and hypotheses  
 Scientific writing

**Objectives:** 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

**Grammar:** Precise language

14.15 - 15.30: Lunch with teachers

15.30 - 18.00: Computing and Information Technology

**Topics:** IT and modern life  
 The internet and technology used in education  
 Social media and addiction  
 Technology in medicine

**Objectives:** 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

**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 - Concept  
 Internalization

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



# Maestros Science - Day 3 - Wednesday

08.30 - 09.00: Breakfast

09.00 - 11.30: Modern Health Threats

- Topics:** 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

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

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  
Phrasal verbs
- Grammar:**

15.30 - 17.45:  
1 to 1 session 2:  
Demo classing

18.00 - 18.30: Break

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



# 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

**Objectives:** Evaluating cover letters and candidates  
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

**Grammar:** Practice writing a CV in English  
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  
Renewable/nonrenewable energy and nuclear energy

**Objectives:** 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

**Grammar:** Research current events related to this topic  
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

**Grammar:** Research some of the most important inventions of today – apps!  
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)

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

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.

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

18.00 Finish

