Maestros -English

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.

11.45 - 14.15:

15.30 - 18:00:

Topics:

Presentations: Types of speeches **Grammar**: Question structures

What makes a good presentation

How to choose a topic Structure of a presentation

Writing an effective introduction and conclusion

Common connectors

Objectives: Learn the names of different types of speeches

Discuss presentations you have listened to and talk about why they were successful

Learn new adjectives to describe presentations Answer your questions about the Friday presentation

Discuss what makes a suitable topic

Talk about how to structure your presentation Go over how to organize your introduction Practice using common connectors Discuss how to write a conclusion Give a practice presentation

Talk about ways to calm your nerves

Experiments

Topics: Describing experiments Laboratory supplies

Laboratory accidents Famous experiments

Learn common collocations and phrasal verbs related to experiments

Discuss experiments from your studies or degree

Learn the names of basic laboratory equipment

Talk about what can go wrong in a laboratory

15:30-17,45 One to One sessions 2 **Demo Class**

11:45 - 14:00

One to One sessions 1

Teaching techniques

20.30 - 22.00



Maestros Science - Day 2 - Tuesday

08.30 - 09.00:

09:00 - 09:10 Homework check

09:00 - 11:30

Health & Hospitals

Health science professions Topics:

Medical problems and treatments Language for the doctor's office

Healthcare systems Medical equipment

Objective: Discuss the challenges of a career in the health sciences

Talk about common health problems and how they are treated

Learn functional language for speaking to patients

Discuss the personality traits necessary for health science professionals

Debate the pros and cons of the Spanish healthcare system

Consider the utility of different medical equipment

Discuss what makes a good hospital

Learn important phrasal verbs related to health

Research a disease and prepare a practice presentation

Learn some common proverbs related to health

Numbers and Statistics:

11.45 - 14.15: Topics:

Big Numbers

Small Numbers

Operations and Calculations

Probability

Statistics, Fractions & Percentages Describing Graphs & Charts

Surveys

Objectives:

Pronounce big numbers accurately Pronounce small numbers accurately Perform calculations in English Discuss probability and risk Use fractions and percentages

Describe and present data in graphs and charts Carry out statistical surveys and present data

15.30 - 18:00:

Topics:

Technology:

Advantages and disadvantages of information technology
Common technology problems
Technology in the classroom
The impact of social media on society
Mobile phone and social media addiction
The fitture of information technology

Objectives:

Analyze famous quotations and compare your opinion to your classmates' views

Learn vocabulary to describe common technology problems

Discuss strategies to reduce the time you spend using mobile devices Predict the technological innovations of the future and draw up a timeline Learn key phrasal verbs related to technology Select items for a time capsule to be opened 100 years from now

11:45 - 14:00One to One sessions 3 Teaching techniques

15:30-17,45 One to One sessions 4 Demo Class

20.30 - 22.00:

Group activity

Maestros Science - Day 3 - Wednesday

08.30 - 09.00: **Breakfast**

09:00 - 09:10 Homework check

09:00 - 11:30

Genetics

Topics:

Genetic Statistics

Nature vs. Nurture Heritability Family Trees

Family History Taking

Pedigrees Amazing Genes

Objective: Revise numbers and statistics related to Genetics

> Discuss the impact of genetics and the environment on humans Speculate as to which traits can be inherited and which cannot

Learn which traits can/cannot be passed down through generations
Learn adjective and verb patterns specific to genetics
Practice phrasal verbs specific to genetic inheritance
Describe your family tree and family relationships
Learn about pedigrees and medical family histories

Learn about amazing human genes

Learn hedging language to distance yourself from theories/studies

11.45 - 14.15:

Engineering:

Topics: Units of Measurement **Conversion Tables**

Material Properties and Uses

Commodity Trading

Ethics of Mars Colonization Engineering a Mars Base Choosing an Engineer Team

Objectives:

Learn differences in unit measurements

Revise and practice big numbers Practice doing calculations in English

Describe properties and uses of engineering materials

Compare engineering materials

Practice the difference between for and to Practice negotiating, trading, buying and selling

Discuss issues in large-scale engineering projects. Develop a plan for an engineering project Negotiate the strengths and weaknesses of candidates when putting together a team of engineers

15.30 - 18:00:

Psychology & Criminology

Topics:

Branches of psychology
Famous psychologists
Behavioral disorders and treatments
Famous psychology assessments
Psychology and the justice system

Learn about famous psychologists such as Sigmund Freud and Carl Jung. Discuss different branches of psychology Talk about how to treat a group of imaginary patients

Learn the names of different behavioral problems and talk about how they should be treated

Discuss Myers-Briggs personality types and how personality influences your life Talk about Rorschach tests and evaluate a series of sample images

Discuss the relationship between dreams and the mind. Debate a series of ethical questions

11:45 - 14:00One to One sessions 5 Teaching techniques

15:30-17,45 One to One sessions 6 **Demo Class**

18.30 - 2<u>0.30:</u> Group activity

08.30 - 09.00:

Breakfast

09:00 - 09:10

Homework check

09:00 - 11:30

Topics:

Job Applications and Interview Skills

Work and professional life Applying for jobs and internships Best practices for interviews

CV writing

Objective:

Review basic vocabulary for jobs and interviews

Discuss what career paths exist for someone with your qualifications

Talk about what factors to take into account when considering a job opportunity

Discuss the importance of internships and work placements Learn what documents you need to send with a job application

Consider the merits of two sample cover letters Evaluate several imaginary candidates for a job

Learn how to describe your strengths, weaknesses and skills Think about how to sell yourself effectively in an interview Participate in a practice interview

Learn basic telephone language

Write a CV in English

11.45 - 14.15:

Inventions:

Topics:

Important Inventions in History

Future Inventions

Robotics and Automation Robot Programming Issues in Robotics Invention Business Idea

Objectives:

Discuss the importance of different inventions

Speculate as to when different inventions were first developed

Learn adjectives related to inventions Discuss the trade-offs of future inventions Learn compound adjectives related to inventions

Discuss the roles of robots and the effects they will have on our lifestyle

Discuss the risk of automation to different professions Describe tasks commonly carried out by robots Practice giving instructions and commands

Discuss ethical issues in robotics

Create and present a sales pitch for a new invention

15.30 - 18:00: **Possible**

Lesson chosen depending on group:

Dentistry

11:45 - 14:00One to One sessions 1 Teaching techniques

15:30-17,45

One to One sessions 2 Demo Class

18.30 - 20.30: 20.30 - 22.00: Group activity

Science High - Day 5 - Friday

08.30 - 09.00:

Breakfast

09:00 - 09:10

Homework check

09:00 - 11:30 **Topics**:

Environment

Environmental problems

Solutions to environmental issues

Energy sources Endangered species Natural disasters

Objective:

Compare your views on the environment to your classmates' opinions

Brainstorm environmental problems and propose solutions

Practice language for cause and effect

Prepare a presentation to raise awareness about an environmental issue

Compare renewable and nonrenewable energy sources Discuss the benefits and drawbacks of nuclear energy Practice first, second and third conditionals

Practice first, second and third conditionals Choose an endangered species to protect Learn vocabulary to discuss natural disasters



11:45 – 14:00 One to One sessions 1 Teaching techniques

11:30-11:4

Break

11.45 - 14.15: Student presentations:

Students, in their groups perform the presentations they have been working on as an on-going homework activity. They will receive structured feedback from both teacher and classmates.

14.15 - 15.30

Lunch with teachers

15.30 - 17:00:

FINAL EXAM AND EVALUTATIONS

Student will take final exam and fill out all necessary paperwork for the course. There will also be a chance to consolidate their learning from the week.

15:30-17,45 One to One sessions 2 Demo Class

8.00

Finish

