# Science Higher

### Course syllabus - Science Higher

### (plan docente)

Course Title: Cursos de Inmersión en Lengua Inglesa - Sciences

### Level: C1-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 exploring the possibility to move into an academic or professional field where a science background would be a requirement).

### **Course Objectives:**

•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.

### **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.

#### **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). UIMP - English Immersion Course

Science Higher Student Book



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### Science Higher - 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 Berlitz information about each other (10 min)Presentations: Each student must present their partner to the rest of the group. **Presentations:** 11.45 - 14.15: Types of speeches **Topics:** 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

15.30 - 17:00: Topics:	Experiments Describing experiments Laboratory supplies The Scientific Method How to design an experiment Laboratory accidents Famous experiments
Objectives:	Learn common collocations and phrasal verbs related to experiments Discuss experiments from your studies or degree Talk about amazing experiments currently being performed Learn the names of basic laboratory equipment Review the scientific method Design an experiment to test a hypothesis Talk about what can go wrong in a laboratory Present a research proposal for an imaginary laboratory Research a famous experiment
17.00- 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is to create a play/report/documentary which they must perform in front of their peers in the final class on Friday.

18.00 - 18.30:	Break
18.45 - 20.30:	Group activity
20.30 - 22.00	Dinner



## Science Higher - Day 2 - Tuesday

		UIMP - English Immersion Course
<b>08.30 - 09.00:</b> 09:00 - 09:10	Breakfast Homework check	Science Higher Student Block
09:00 - 11:30 <b>Topics</b> :	Health & Hospitals Health science professions 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	Contraction of the second seco
11.45 - 14.15: Topics:	Numbers and Statistics: 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	porati
15.30 - 17:00: Topics:	<b>Technology:</b> 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 future of information technology	
Objectives:	Analyze famous quotations and compare your opinion to your classmates' views Discuss the benefits and drawbacks of everyday technological devices Learn vocabulary to describe common technology problems Discuss the merits of technology in the classroom in an interactive role play Present your opinions about social media in a debate 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	
17.00 - 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-g	oing project. The objective is
18.00 - 18.30:		
18.45 - 20.30:	Group activity	

# Science Higher - Day 3 - Wednesday

	UIMP - English Immersion Course
<b>08.30 - 09.00:</b> 09:00 - 09:10	Breakfast Homework check
09:00 - 11:30 <b>Topics</b> :	Genetics         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: Topics:	Engineering: 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 - 17:00: Topics:	Psychology & Criminology Branches of psychology Famous psychologists Behavioral disorders and treatments Famous psychology assessments Psychology and the justice system
Objectives:	Practice the pronunciation of key terms 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 Discuss what causes crime and talk about the responsibilities of a forensic psychologist Debate whether psychological counseling should be offered to prison inmates
17.00 - 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is
18.00 - 18.30:	
18.30 - 20.30: 20.30 - 22.00:	Group activity Dinner

## Science Higher - Day 4 - Thursday

<b>08.30 - 09.00:</b> 09:00 - 09:10	Breakfast Homework check
09:00 - 11:30 <b>Topics</b> :	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: Topics:	Inventions: 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
	Lunch with teachers
15.30 - 17:00: Possible Topics:	Lesson chosen dependingon group:- Anatomy- Pharmacy- Dentistry- Biomedical Engineering- Veterinary Science- Nutrition
17.00- 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is to create a play/report/documentary which they must perform in front of their peers in the final class on Friday.
18.00 - 18.30:	
18.30 - 20.30: 20.30 - 22.00:	Group activity Dinner

### Science High - Day 5 - Friday

		Science Higher
<b>08.30 - 09.00:</b> 09:00 - 09:10 09:00 - 11:30 <b>Topics</b> :	Breakfast Homework check Environmental problems Solutions to environmental issues Energy sources Endangered species Natural disasters	- Series
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 Choose an endangered species to protect Learn vocabulary to discuss natural disasters	
11:30-11:45	Break	
11.45 - 14.15:	Student presentations: Students, in their groups perform the presentations they have been working on as an on-going homework	ork activity

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 -	Lunch with teachers

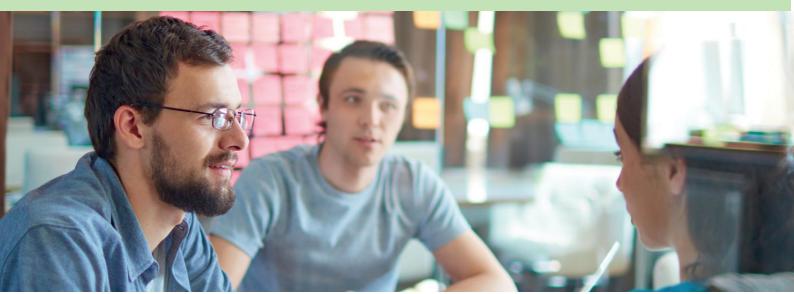
### 15.30 - 17:00: FINAL EXAM AND EVALUTATIONS

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.

### 17:45 – 18:00 FINAL PERFORMANCE ACTIVITY

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. Performances will be given feedback and rated.

18.00 Fin





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# Science Lower

### Course syllabus - Science Lower

### (plan docente)

Course Title: Cursos de Inmersión en Lengua Inglesa - Sciences

### Level: B1-B2

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 exploring the possibility to move into an academic or professional field where a science background would be a requirement).

### **Course Objectives:**

•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.

### **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.

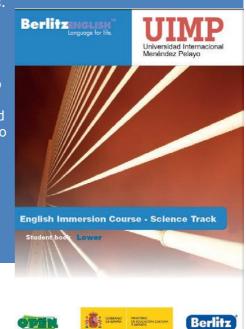
### **Grammatical content:**

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

### 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.

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# Science Lower- Day 1 - Monday

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<b>08.30 - 09.00:</b> 09:00 - 10:30	Breakfast 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' performancein class.Any changes will be entered in the Amended level evaluation" form.	English Immersion Court Stream box Ever	Urleveidd Interacional Mendidiz Pilipo
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.		Berlitz)
11.45 - 14.15: Topics:	<b>Presentations:</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		
	Good presentations and good speakers Different types of presentations Topics Dos and Don'ts of presentations PowerPoint		

15.30 - 17:00: Topics:	Talking numbers         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
17.00- 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is to create a play/report/documentary which they must perform in front of their peers in the final class on Friday.
18.00 - 18.30:	

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# Science Lower- Day 2 - Tuesday

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<b>08.30 - 09.00:</b> 09:00 - 09:10 09:00 - 11:30	Breakfast Homework check Psychology and Criminology
Topics:	The Branches of psychology and common treatments and problems Current trends of medication Group Psychology Mental disorders in Cinema Psychology and Criminology
Objective:	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
11.45 - 14.15: Topics:	Eureka! - Famous Experiments in the Past and Today The scientific method Experiments and equipment Facts and hypotheses Scientific writing Famous experiments
Objectives: Grammar:	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 Precise language
15.30 - 17:00: Topics:	<b>Computing and Information Technology</b> 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
17.00 - 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective
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### Science Lower- Day 3 - Wednesday

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<b>08.30 - 09.00:</b> 09:00 - 09:10	Breakfast Homework check		
09:00 - 11:30 <b>Topics</b> :	Modern Health Threats Health threats in various parts of the world Common diseases and symptoms Lifestyle related diseases - Healthy life style Welfare states and health systems		
Objective:	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: Topics:	The Changing World I - Environment, Global Warming and Natural Disasters 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		
15.30 - 17:00: Topics:	Biotechnology and Biomedical Engineering 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		
17.00 - 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is		
18.00 - 18.30:	Break		

## Science Lower- Day 4 - Thursday

<b>08.30 - 09.00:</b> 09:00 - 09:10	Breakfast Homework check		
09:00 - 11:30 <b>Topics</b> :	Jobs English Immersion Course - Science Track		
	Career paths for science based education Job applications, CVs, Interviews Evaluating cover letters and candidates		
Objective:	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: Topics:	The Changing World II: Population Growth and Energy Needs 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 Research current events related to this topic		
Grammar:	Phrasal verbs related to resources		
15.30 - 17:00: Topics:	Necessity is the Mother of Invention Great inventions Spanish inventions Metric vs. Imperial Ergonomics Advertising and marketing		
Objectives:	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 you classmates Research some of the most important inventions of today – apps!		
17.00 - 18:00:	One-to-One sessions + On-going group project Students receive their 15 minute one-to-one session. While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is		
18.00 - 18.30:			
18.30 - 20.30: 20 30 - 22.00:	Group activity Dinner		

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### Science Lower- Day 5 - Friday

<b>08.30 - 09.00:</b> 09:00 - 09:10	Breakfast Homework check	
09:00 - 11:30 <b>Topics</b> :	Professional and Practice Session dedicated to the following:	English Immersion Cours
Topics.	Revision and consolidation of topics seen during the week Debate and Discussion on topics chosen by the students	Student bolt Lower
	Professional language: Students will look at elements of Professional English such as:	
	<ul> <li>Cross cultural awareness in the professional environment</li> <li>Meetings</li> <li>Telephone skills.</li> <li>(from the provided materials)</li> </ul>	
11:30-11:45		
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

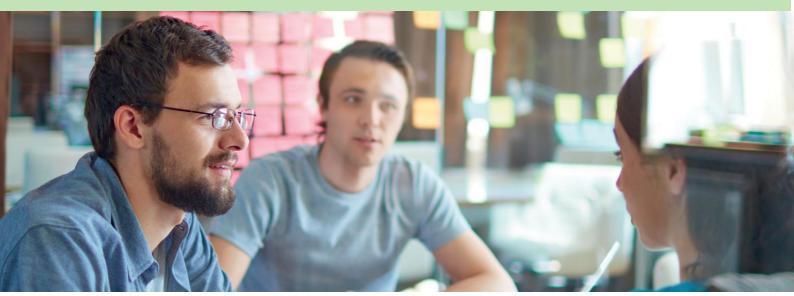
### 15.30 - 17:00: FINAL EXAM AND EVALUTATIONS

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.

### 17:45 – 18:00 FINAL PERFORMANCE ACTIVITY

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. Performances will be given feedback and rated.

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