#### CLIL Module Plan

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School Grade	O Primary			O Middle				● High		
School Year	01	02		03			O 4		● 5	
Subject	Matematica		Topic		Linear Programming			J		
CLIL Language	<ul><li>English</li></ul>				O D	euts	ch			
Personal and social-cultural preconditions of all people	N.of students: experience in of Mathematics.				•	•		•	ious CLIL Subject taught:	

Personal and
social-cultural
preconditions
of all people
involved

Students' prior	Subject	Language
knowledge, skills, competencies	Students didn't have any prior experience concerning the content ot the lessons	Students have adequate interactive communication skills when working in groups. Students have good reading skills knowledge (gist, main idea, skimming and scanning).

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#### **Description of** teaching and learning strategies

The lessons will predominantly follow the "activate prior knowledge / guide understanding / task-based learning / review" format. Classroom activities will be as communicative as possible with students involved in inquiry-based / collaborative / cooperative learning in a task-based learning environment using information exchange / information gap activities. Exercises will be exploited and scaffolded both for content and language learning. Extensive use of videos and presentations will be made to introduce new information, facilitate students' comprehension and guide vocabulary acquisition. A mixture of 'frontal' and 'student-centred' teacher roles will be used as appropriate to the lesson phases. During the latter, the teacher will act as facilitator and guide. Continuous assessment to include motivation, language use and language accuracy using. Formative assessment in the form of teacher using appropriate questioning.

#### Overall Module Plan

	Overall Module Flair					
Unit: 1	Lesson 1					
Linear Programming	Introduction to OR (Operational Research) and LP (Linear Programming)					
Unit length: 20 hours	Lesson 2					
	Linear Inequalities in Two Variables (1)					
	Lesson 3					
	Linear Inequalities in Two Variables (2)					
	Lesson 4					
	Linear Inequalities in Two Variables (3)					
	Lesson 5					
	Compound Inequalities in Two Variables (1)					
	Lesson 6					
	Compound Inequalities in Two Variables (2)					
	Lesson 7					
	A real problem (1)					
	Lesson 8					
	A real problem (2)					
	Lesson 9					
	Test on inequalities in two variables					
	Lesson 10					
	Test revision					
	Lesson 11					
	Introduction to Linear Programming					

#### Lesson 12

Linear Programming (1)

#### Lesson 13

Linear Programming (2)

Lesson 14	
Linear Programming (3)	
Lesson 15	
Linear Programming (4)	
Lesson 16	

#### Lesson 17

Linear Programming (5)

Linear Programming with 3 variables (1)

#### Lesson 18

Linear Programming with 3 variables (2)

#### Lesson 19

Test on Linear Programming

#### Lesson 20

Test revision

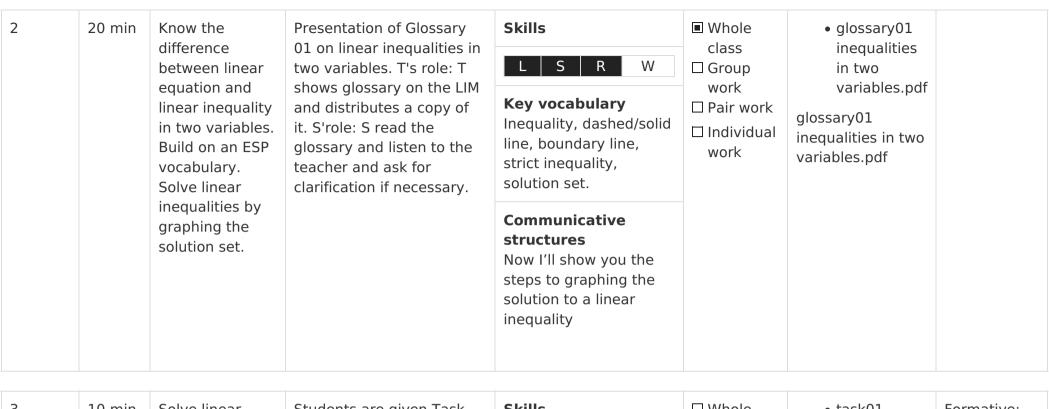
Unit number 1 Lesson number 1 Title Introduction to OR (Operational Research) and LP (Linear Programming)

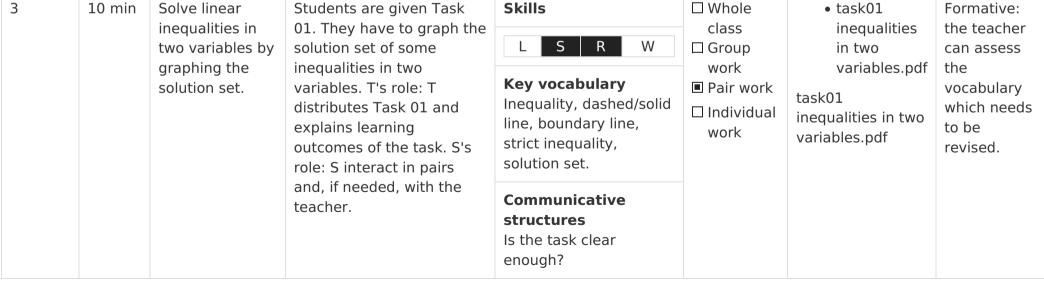
Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	5 min	Introduction to OR and LP	T's role: explains Learning outcomes of the lesson	Skills  L S R W  Key vocabulary Operational Research, Linear Programming  Communicative structures The topic of this unit is	■ Whole class □ Group work □ Pair work □ Individual work	• ppt01_operational_research.pptx  PPT presentation:  ppt01_operational_research.pptx	

2	45 min	Viewing of a video about Operational Research to understand the aims of the OR and to learn ESP language	shows the video and, sometimes, stops it to clarify. S's role: S watch the	Skills  L S R W	■ Whole class Group work Pair work Individual work	link WhatIsOperationalResearch - The OR Society (17:06)
				Key vocabulary Operational Research Linear Programming Decision Support System		
				Communicative structures Is the video clear? Do you need subtitles?		

Unit number 1 Lesson number 2 Title Linear Inequalities in Two Variables (1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10 min	Solve linear inequalities in two variables by graphing the solution set.	Viewing of a video which gives some rules about solving linear inequalities in two variables (English subtitles may be included). T's role: T shows the video and, if needed, stops it to clarify. S's role: S watch the video.	Key vocabulary Inequality, dashed/solid line, boundary line, strict inequality, solution set.  Communicative structures Is the difference between equations and inequalities clear?	■ Whole class □ Group work □ Pair work □ Individual work	link Linear Inequalities in Two Variables – Mathispower4u (6:52)	





4	10 min	Solve linear inequalities in two variables by graphing the solution set.	Check of Task 01 with Desmos (www.desmos.com) of Geogebra (www.geogebra.org). T's role: corrects if necessary. S's role: a student is asked to graph the solution set of Task 01 on the LIM.	L S R W  Key vocabulary Inequality, dashed/solid line, boundary line, strict inequality, solution set.	□ Whole class ■ Group work □ Pair work □ Individual work	<ul> <li>task01         inequalities         in two         variables.pdf</li> </ul>
				Communicative structures Now we are going to go through the solution		

Unit number 1 Lesson number 3 Title Linear Inequalities in Two Variables (2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10 min	Revise and consolidate basic properties of inequalities in two variables and the steps to graphing the solution set.	Presentation of Task 02 on the LIM to assess the students' comprehension of the activity. T's role: T shows and explain the exercises on the LIM. S's role: S listen to the teacher and ask for clarification if necessary.	Skills  L S R W  Key vocabulary See lesson 2  Communicative structures Is the task clear enough?	■ Whole class Group work Pair work Individual work	<ul> <li>task02_inequalities_in two_variables.pdf</li> <li>task02_inequalities_in_two_variables.pdf</li> </ul>	The teacher checks if the outcomes are clear.

2	40 min	Revise and consolidate basic properties of inequalities in two variables and the steps to graphing the solution set.	Students are given Task 02. In the first part they have to decide the right inequality symbol should be used by looking at the graph of the solution set of some inequalities in two variables. In the second part they have to graph the solution set.	Key vocabulary See lesson 2  Communicative structures Decide which inequality symbol should be used by looking at the graph. Graph the solution set. Do you need help?	□ Whole class □ Group work □ Pair work ■ Individual work	<ul> <li>task02_inequalities_in two_variables.pdf</li> <li>task02_inequalities_in_two_variables.pdf</li> </ul>	Formative: the teacher can assess the content of the previous two lessons.
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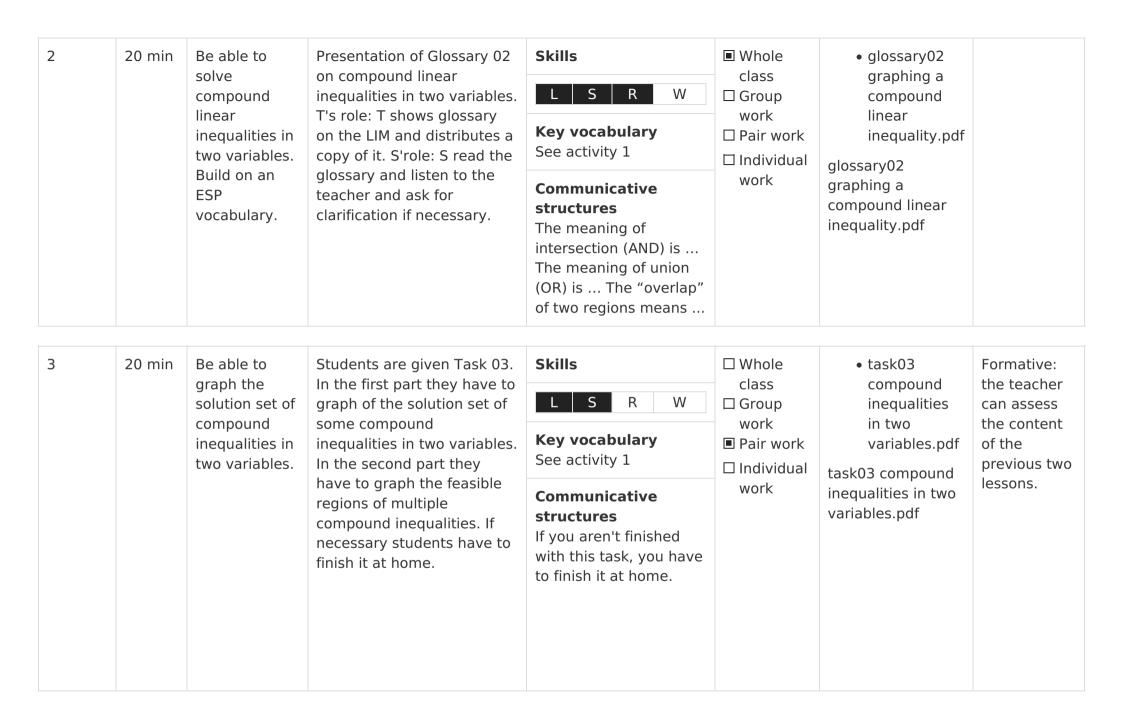
Unit number 1 Lesson number 4 Title Linear Inequalities in Two Variables (3)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	15 min	Revise and consolidate basic properties of inequalities in two variables	Correction of Task 02. Students interact in pairs and check their solutions.	Skills  L S R W  Key vocabulary See Lesson 2	□ Whole class □ Group work ■ Pair work □ Individual	<ul> <li>task02_inequalities_in two_variables.pdf</li> </ul>	Formative: the teacher circulates and facilitates.
	and the steps to graphing the solution set.	Communicative structures Work in pairs and compare your solutions.	work				

2	35 min	Revise and consolidate	Class correction of the Task 02. T's	Skills	■ Whole class	<ul> <li>task02_inequalities_in two variables.pdf</li> </ul>	Formative: assessment
		basic	role: T shows the	L S R W	☐ Group	two_variables.pui	of content
		properties of inequalities in two variables	solution of the task on the LIM using Desmos or	<b>Key vocabulary</b> See Lesson 2	work □ Pair work □ Individual		learning and ESP vocabulary.
	and to g the	and the steps to graphing the solution set.	Geogebra. S's role: S check their solutions and ask questions if necessary.	Communicative structures Did you understand? Do you agree with this solution set?	work		

Unit number 1 Lesson number 5 Title Compound Inequalities in Two Variables (1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10 min	Solve Compound Linear Inequalities in two variables by the intersection of the solution set of each inequalities.	Viewing of a video which gives some rules about solving compound linear inequalities in two variables (English subtitles may be included). T's role: T shows the video and, if needed, stops it to clarify. S's role: S watch the video.	Key vocabulary Compound Linear Inequalities, intersection, overlap, union  Communicative structures Do you want to watch the video again? Do you prefer using subtitles?	■ Whole class □ Group work □ Pair work □ Individual work	link Introduction to graphing systems of linear inequalities – Khan Academy (5:35)	



Unit number 1 Lesson number 6 Title Compound Inequalities in Two Variables (2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1 50 n	50 min	Revise Task 03 and reinforce students'	Class correction of the Task 03. T's role: T shows the solution of the task on the LIM using Desmos or Geogebra. S's role: S check their solutions and ask questions if necessary.	Skills  L S R W	■ Whole class Group work Pair work	<ul> <li>glossary02 graphing a compound</li> </ul>	Formative: both vocabulary and comprehension of the topic is assessed.
		knowledge of compound inequalities in two variables and the procedures for finding the solution set.		<b>Key vocabulary</b> see Glossary 02		linear inequality.pdf • task03 compound inequalities in two variables.pdf	
				Communicative structures GeoGebra helps us to better understand the solution set of the task assigned. Is everything clear?	work		

Unit number 1 Lesson number 7 Title A real problem (1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	30 min	Build on some vocabulary to describe mathematical procedures. Be able to use inequalities in two variables in order to solve a real life problem.	Students are given Task 04. Students read the task and ask for clarification if necessary. The teacher checks if the outcomes are clear. Students discuss and try to solve the exercise.	L S R W  Key vocabulary Glossary 02  Communicative structures Set up a system of inequalities that represents this scenario Identify the range	□ Whole class □ Group work ■ Pair work □ Individual work	<ul> <li>glossary02 graphing a compound linear inequality.pdf</li> <li>task04_a_real_problem.pdf</li> <li>task04_a_real_problem.pdf</li> </ul>	Formative: the teacher circulates and facilitates.

2	20 min	Revise Task 04 watching the Video 04	Viewing of a video which shows how to solve the problem of the Task 04. T's role: T shows the video and, if needed, stops it to clarify. S's role: S watch the video and ask for clarification if necessary.	Key vocabulary Glossary 02  Communicative structures Is the video clear enough?	■ Whole class Group work Pair work Individual work	glossary02 graphing a compound linear inequality.pdf     task04_a_real_problem.pdf  link about Systems of linear inequalities word problems example - Khan Academy (9:44)	Formative: assessment of learning and peer- teaching efficacy.
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Unit number 1 Lesson number 8 Title A real problem (2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	20 min	Reinforce the ability of using inequalities in two variables to solve real life problems.	Students are given Task 05. Students read the task and ask for clarification if necessary. The teacher checks if the outcomes are clear. Students discuss and try to solve the exercise.	L S R W  Key vocabulary Glossary 02  Communicative structures	□ Whole class □ Group work ■ Pair work □ Individual work	<ul> <li>glossary02 graphing a compound linear inequality.pdf</li> <li>task05_a_real_problem.pdf</li> </ul>	Formative: the teacher circulates and facilitates.

2 30 min Revise Task Class correction Skills Whole • equations and Formative: 05 and of the Task 05. class inequalities.pdf both S R W discuss Class ☐ Group • glossary02 graphing a vocabulary and discussion work about the compound linear comprehension **Key vocabulary** ☐ Pair work problem about the topic inequality.pdf of the topic is Glossary 02, equations and the and some • task05 a real problem.pdf assessed. ☐ Individual and inequalities.pdf possible possible work equations and inequalities.pdf alternatives. alternatives if page 49 **Communicative** something structures changed. T's Is the ordered pair (x0,role: T shows y0) part of the feasible the solution of region? What does it the task on the mean? Graph the LIM opening feasible region with this equations and additional constraint At inequalities.pdf. which point in the new S's role: S feasible region ... ? check their solutions and ask questions if necessary.

Unit number 1 Lesson number 9 Title Test on inequalities in two variables

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Assess both the language and the knowledge of the contents of the previous lessons (1-8)	Teacher hands out the test Students do the test	Skills  L S R W  Key vocabulary  Communicative structures Do you need further information? Time is over. I need you to hand your test back to me.	□ Whole class □ Group work □ Pair work ■ Individual work	test01_inequalities_in_two_variables.pdf	Sommative: both the language and the knowledge of the contents of the previous lessons (1-8) are assessed.

Unit number 1 Lesson number	10 <b>Title</b> Test revision
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Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Knowledge revision and consolidation.	Class correction of the Test 01. Teacher shows the test on the LIM. Students, taking turns, propose their solutions. The whole class interacts to correct the exercises.	Key vocabulary Glossary 02  Communicative structures Let's correct the test. Do you have any questions? Do you need further information?	■ Whole class Group work Pair work Individual work	<ul> <li>glossary02         graphing a         compound         linear         inequality.pdf</li> <li>test01         inequalities         in two         variables.pdf</li> <li>Desmos, GeoGebra         or other</li> </ul>	Formative: the teacher checks if the students have understood the contents and the language of the previous lessons (1-8).

 Unit number
 1
 Lesson number
 11
 Title
 Introduction to Linear Programming

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	25 min	Introduction lo Linear Programming (LP)	Viewing of the Video 05 which gives some examples about the usefulness of the LP as a decision support system. T's role: T shows the video and, if needed, stops it to clarify. S's role: S watch the video.	Skills  L S R W  Key vocabulary Linear programming, constraints, maximise profits, unkowns, objective function	■ Whole class Group work Pair work Individual work	Video 05 link Introduction to Linear Programming (1/3) METAL film 4.01 - METALMathProjcet (10:49)	
				Communicative structures Pay particular attention to the last part of the video.			

2	25 min	Be able to solve an LP problem identifying the objective function and the constraints thru inequalities in two variables.	Students are given Task 06. S try to graph the systems of constraints, find the feasible region and, also, graph the objective function. The teacher checks if the outcomes are clear.	Key vocabulary See activity 1  Communicative structures Is the objective function to maximize or minimize? The constraints of a linear programming problem are represented by a system of inequalities. You have to graph the feasible region.	□ Whole class □ Group work □ Pair work ■ Individual work	• task06_lp_chocolates.pdf task06_lp_chocolates.pdf	Formative: the teacher circulates and facilitates.
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Unit number 1 Lesson number 12 Title Linear Programming (1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	25 min	Collaborative learning.	Students are invited to check the solution of Task 06 in small groups.	Skills  L S R W  Key vocabulary See lesson 11 activity 1	☐ Whole class ☐ Group work ☐ Pair work ☐ Individual	• task06_lp_chocolates.pdf	The teacher circulates and checks if the topic is assessed.
				Communicative structures Who wants to share their solution?	work		

25 min	Consolidate basic	Viewing of the Video 06 which is	Skills	■ Whole class	• task06_lp_chocolates.pdf
	properties of	the second part of	L S R W	☐ Group	link Linear Programming – final two steps (2/3) METAL
	LP.	the previous video (Video 05). The video shows the	<b>Key vocabulary</b> See lesson 11 activity 1	work □ Pair work □ Individual	film 4.02 - METALMathProject (9:14)
		solution of the Task 06. T's role: T shows the video and, if needed, stops it to clarify. S's role: S watch the video.	Communicative structures Now we are going to go through the solution. Please, try to correct any mistakes you can find.	work	

Unit number 1 Lesson number 13 Title Linear Programming (2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	30 min	Consolidate basic properties of LP and revise new language terms.	Viewing of the Video 07 which gives useful information and a guided example of using LP. T's role: T shows the video and, if needed, stops it to clarify. S's role: S watch the video.	Skills  L S R W  Key vocabulary See lesson 11 activity 1  Communicative structures	■ Whole class □ Group work □ Pair work □ Individual work	Video 07 link - Introduction to Linear Programming – Mathispower4u (10:37)	

2	20 min	Consolidate the technical vocabulary of LP.	Presentation of the first part of Glossary 03: technical terminology	Skills  L S R W  Key vocabulary See Glossary 03	■ Whole class □ Group work □ Pair work □ Individual	glossary03_linear_programming.pdf
			list, steps to be followed to solve a LP problem. T's role: T shows glossary on the LIM and distributes a copy of it. S'role: S read the glossary and listen to the teacher and ask for clarification if necessary.	Communicative structures Here we have a list of the most important words related to Linear Programming.	work	

Unit number 1 Lesson number 14 Title Linear Programming (3)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	30 min	Understanding the main difference	Presentation of the second part of Glossary 03: geometric approach and	Skills  L S R W	■ Whole class		
		between the geometric approach and the	algebraic approach. T's role: T shows glossary on the LIM. S'role: S read the glossary	<b>Key vocabulary</b> See Glossary 03	work □ Pair work □ Individual		
		algebraic approach of solving an LP problem.	and listen to the teacher and ask for clarification if necessary.	Communicative structures What does it happen if we move the line through the graph?	work		

2	20 min	Assess the students' knowledge about the meaning of an LP problem and how to solve it.	Viewing of the Video 07 for the second time not using subtitles. T's role: T shows the video and, sometimes, stops it and asks something to the students. S's role: S watch the video and reply to the teacher.	Skills  L S R W  Key vocabulary See Glossary 03  Communicative structures	■ Whole class □ Group work □ Pair work □ Individual work	Video 07 link - Introduction to Linear Programming - Mathispower4u (10:37)	Formative: the correct vocabulary is assessed, as well as the knowledge of LP problem solving.
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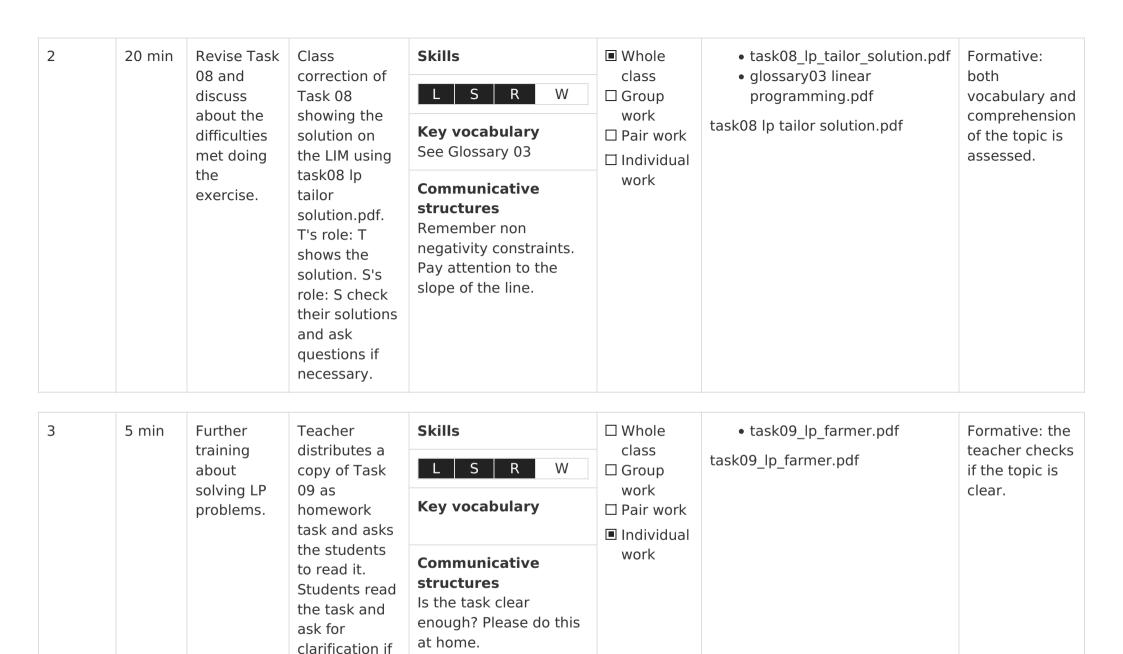
Unit number 1 Lesson number 15 Title Linear Programming (4)

Activity	Timing	Learning Outcomes	<b>Activity Procedure</b>	Language	Interaction	Materials	Assessment
1 25 min	25 min	Be able to understand and solve an LP problem.	Students are given Task 07 that is a guided exercise. Students read the task and ask for clarification if necessary. The teacher checks if the outcomes are clear. Students discuss and try to solve the exercise.	Skills  L S R W  Key vocabulary See Glossary 03  Communicative	□ Whole class □ Group work ■ Pair work □ Individual work	<ul> <li>glossary03 linear programming.pdf</li> <li>task07 lp shoe factory (guided).pdf</li> <li>task07 lp shoe factory (guided).pdf</li> </ul>	Formative: the teacher circulates and facilitates.
				structures You have to complete the table. Write down the objective function. Complete the constraints. Find the feasible region. Compare your solution.			

2	25 min Revise Task 07 and discuss about the difficulties met doing the	discuss about the difficulties met doing	Class correction of the Task 07 showing the solution on the LIM using task07 lp shoe factory (guided) solution.pdf. T's role: T	Skills  L S R W  Key vocabulary See Glossary 03	■ Whole class Group work Pair work Individual work	<ul> <li>glossary03 linear programming.pdf</li> <li>task07 lp shoe factory (guided) solution.pdf</li> <li>task07 lp shoe factory (guided) solution.pdf</li> </ul>	Formative: both vocabulary and comprehension of the topic is assessed.
		the exercise.	shows the solution. S's role: S check their solutions and ask questions if necessary.	Communicative structures Do you agree with the final solution? Did you find any difficulties?			

Unit number 1 Lesson number 16 Title Linear Programming (5)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	25 min	Consolidate properties of LP and further training about LP problem.	Students are given Task 08. Students read the task and ask for clarification if necessary. The teacher checks if the outcomes are clear. Students discuss and try to solve the exercise.	L S R W  Key vocabulary See Glossary 03  Communicative structures Do you know all these words?	□ Whole class □ Group work ■ Pair work □ Individual work	<ul> <li>task08_lp_tailor.pdf</li> <li>glossary03 linear programming.pdf</li> <li>task08_lp_tailor.pdf</li> </ul>	Formative: the teacher circulates and facilitates.



necessary.

Unit number 1 Lesson number 17 Title Linear Programming with 3 variables (1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	20 min	Revise Task 09 done at home and discuss about the difficulties met doing the exercise.	Class correction of Task 09 showing the solution on the LIM using task09 lp farmer solution.pdf. T's role: T shows the solution. S's role: S check their solutions and ask questions if necessary.	L S R W  Key vocabulary  Communicative structures Let's have a look at the different possibilities.	■ Whole class □ Group work □ Pair work □ Individual work	task09_lp_farmer_solution.pdf task09 lp farmer solution.pdf	Formative assesment of learning outcomes.

2	30 min	Learn how to solve LP problems with 3 variables using the sustitution method.	Presentation of linear programming with 3_variables.pdf. It is an example that shows the steps to be followed to solve a LP problem with 3 variables. T's role: T shows the exercise on the LIM and distributes a copy of it. S'role: S listen to the teacher and ask for clarification if necessary.	Key vocabulary See linear programming with 3 variables.pdf  Communicative structures We have to rewrite the problem using only two variables. One of the constraints must be an equation. We have to do a substitution.	■ Whole class □ Group work □ Pair work □ Individual work	<ul> <li>linear programming with 3 variables.pdf</li> <li>linear programming with 3_variables.pdf</li> </ul>	Formative: the teacher checks if the topic is clear.
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Unit number 1 Lesson number 18 Title Linear Programming with 3 variables (2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	25 min	Applying the knowledge of lesson 17 in order to solve LP problems with 3 variables.	Students are given Task 10. Students read the task and ask for clarification if necessary. The teacher checks if the outcomes are clear. Students discuss and try to solve the exercise.	Key vocabulary See linear programming with 3 variables.pdf  Communicative structures You have to identify the equation. Compare the equation of the function and the system of constraints.	□ Whole class □ Group work ■ Pair work □ Individual work	<ul> <li>task10_breeder.pdf</li> <li>linear programming with 3 variables.pdf</li> <li>task10_breeder.pdf</li> </ul>	Formative: the teacher circulates and facilitates.

2	25 min	Revise Task 10 and discuss about the difficulties met doing the exercise.	Class correction of Task 10 showing the solution on the LIM using task10 breeder solution.pdf. T's role: T shows the solution. S's role: S check their solutions and ask questions if necessary.	Skills  L S R W	■ Whole class □ Group work □ Pair work □ Individual work	<ul> <li>task10_breeder_solution.pdf</li> <li>linear programming with 3 variables.pdf</li> <li>task10 breeder solution.pdf</li> </ul>	Formative: both vocabulary and comprehension of the topic is assessed.
				<b>Key vocabulary</b> linear programming with 3 variables.pdf			
				Communicative structures What will happen if you use another unknown?			

Unit number1Lesson number19TitleTest on Linear Programming

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Assess both the language and the knowledge of the contents of the previous lessons (11- 18)	Teacher hands out the test Students do the test	L S R W  Key vocabulary  Communicative structures Do you need further information? Time is over. I need you to hand your test back to me.	□ Whole class □ Group work □ Pair work ■ Individual work	• test02_linear_programming.pdf test02_linear_programming.pdf	Sommative: both the language and the knowledge of the contents of the previous lessons (11-18) are assessed.

Unit number1Lesson number20TitleTest revision

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Knowledge revision and consolidation	Class correction of the Test 02. Teacher shows the test on the LIM. Students, taking turns, propose their solutions. The whole class interacts to correct the exercises.	L S R W  Key vocabulary See Glossary 03  Communicative structures Let's correct the test. Do you have any questions? Do you need further information?	■ Whole class □ Group work □ Pair work □ Individual work	• test02_linear_programming.pdf	Formative: the teacher checks if the students have understood the contents and the language of the previous lessons (11-18).