CLIL Module Plan

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School	I.I. "MARTINO I	I.I. "MARTINO MARTINI" – MEZZOLOMBARDO (TN, ITALY)						
School Grade	O Primary			O Middle			High	
School Year	● 1 ○ 2		2	03 04		O 4		05
Subject	Fisica Topic			Kinematics				
CLIL Language	• English			O Deuts	ch			

Personal and	This class is made up of twelve students, who attend quite a demanding
social-cultural	experimental course, which condenses in four school years the curriculum of a
preconditions	Scientific Grammar School. All students have a medium-high socio-cultural
of all people	background and are highly motivated. Neither students with special needs nor
involved	with migratory background are present in this context. The average language level of the class is B1/B2. The Physics teacher has known them for five months and every single lesson has been conducted in English, with CLIL methodology, since the beginning of the school year.

Students' prior	Subject	Language
skills, competencies	Measuring (procedures, instruments, units). Basic data processing (average, half-the-spread). Diagrams construction and base interpretation. Proportionality. Linear and quadratic functions (graphs and interpretation, and least). Linear and quadratic equations.	BICS. Base structures of English language (present tenses, past tenses, future tenses, comparatives, superlatives). General understanding of if-clauses.

Timetable fit	 Module 	Length 13 lessons (20 hours overall)
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Description of teaching and learning strategies	• Several methodological approaches will be fostered (task-based learning, learning by doing, cooperative learning); • Most of the activities will be chosen to allow the integration of language and content learning by promoting students' interaction (research activities, presentations, lab reports, discussions); • All lessons will involve as many language skills as possible (reading, writing, listening, speaking) in order to activate language learning processes. • Students will be given some language inputs (on word level, on sentence level and on paragraph level); • A wide range of different materials, both on paper and digital (texts, videos, lab activities, presentations, various simulation software ,) will be used to meet different learning styles. • Self and peer correction will be promoted all through the module. • In terms of intask communication, students will be exposed to functional language exponents and lexical chunks to develop both their BICS and CALP competences. • The teacher will act as facilitator and guide in all student-centered activities. • Continuous and formative assessment will be fostered to include motivation, language use and language accuracy. • A summative assessment at the end of the module will verify the acquisition of both the
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Overall Module Plan

Unit: 1	Lesson 1
Introduction to Kinematics	Introduction to kinematics
Unit length: 5 hours	Lesson 2
	Concept of time
	Lesson 3
	Space-time and speed-time diagrams
Unit: 2	Lesson 1

Uniform Motion

Unit length: 5 hours

Introduction to UM

Lesson 2

Experiment on UM

Lesson 3

Problems about UM

Unit: 3	Lesson 1
Uniformly Accelerated Motion and Free Fall	Introduction to UAM
Unit length: 7 hours	Lesson 2
	Experiment on UAM
	Lesson 3
	Introduction to FF
	Lesson 4
	Measuring g through FF
	Lesson 5
	Problems about UAM

Unit: 4	Lesson 1
Final recap, Test and Correction	Final recap
Unit length: 3 hours	Lesson 2
	Test and test correction

1

Unit number

Lesson number

1

Title

Introduction to kinematics

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10	Recall concepts from previous knowledge. List the main quantities related to kinematics.	T must have prepared in advance an empty page on their mentimeter.com account with the question "What physical quantities are related to motion?" and the possibility for Ss to insert up to five words to form a collective wordcloud. T projects the slide and invites Ss to visit menti.com using their smartphones and to answer the question on the website. T also writes on the whiteboard the code to access the specific wordcloud. Ss use their smartphones to visit menti.com and answer the question.	SkillsLSRWKey vocabularyMotion Physical quantityJames and the standard stand	 Whole class Group work Pair work Individual work 	 U1_L1_ALL1.docx U1_L1_ALL1.pdf U1_L1_ALL2.docx U1_L1_ALL2.pdf menti.com (online wordcloud builder) Ss' smartphones U1_L1_ALL1 (mentimeter slide) U1_L1_ALL2 (example of wordcloud)	(none)

2	10 Compare ideas and commen the resul wordclou about motion,	Compare ideas and comment the resulted wordcloud about motion, giving	Compare deas and comment the resulted wordcloud about motion, giving opinions and defending them.	SkillsLSRWKey vocabularyAcceleration, velocity, speed, motion, position, time, force,	 Whole class Group work Pair work Individual work 	 U1_L1_ALL1.docx U1_L1_ALL1.pdf U1_L1_ALL2.docx U1_L1_ALL2.pdf menti.com (online wordcloud builder) U1_L1_ALL1 (mentimeter slide)	Formative: T elicits or models the language.
		opinions and defending them.		Communicative structures What do you mean by? In your opinion, why isconnected to motion? What is the relation betweenand motion? Do you agree with? I agree because		(mentimeter slide) U1_L1_ALL2 (example of wordcloud)	

3	10	Identify the definition of the main physical quantities involved in kinematics in order to memorize them.	T hands out the worksheets and invites Ss to complete the first short task. Then T circulates to help Ss. Ss complete the task in pairs, matching words and their definitions. Since they work in pairs, they are invited to	Skills L S R W Key vocabulary Motion, time, position, distance, displacement, average speed, velocity, acceleration.	 Whole class Group work Pair work Individual work 	 U1_L1_ALL3.docx U1_L1_ALL3.pdf U1_L1_ALL3 (matching activity) 	Formative: T monitors the general understanding of the definitions on the handout and the acquisition of specific
		Acquire specific vocabulary.	discuss their matching hypotheses with their classmate.	structures I think This could be			terms.

4	15	Apply the learnt definitions about motion. Analyze some potentially real kinematic situations and interpret them, also comparing different results.	T invites Ss to complete the second task on the handouts then circulates to facilitate. Since Ss work in pairs, they are invited to discuss their hypotheses and ideas with their classmate. Some questions require to justify Ss' answers in written form.	SkillsLSRWKey vocabularyMotion, time, position, distance, displacement, average speed, velocity, acceleration.Communicative structuresWhy do you say that? How can you tell? I think that	 Whole class Group work Pair work Individual work 	 U1_L1_ALL3.docx U1_L1_ALL3.pdf U1_L1_ALL3 (task about the learnt definitions) 	Formative: T monitors the general understanding and the application of the learnt concepts.
5	5	Compare ideas and results about the definitions of motion, defending one's own hypotheses.	T invites every pair to join another one to compare results. Ss are invited to give reasons of their choices and, if they are different from the ones of the other pair, they should discuss briefly in order to come to an agreement.	Skills L S R W Key vocabulary Wotion, time, position, distance, displacement, average speed, velocity, acceleration. Communicative structures Why do you say that? How can you tell? I think that	 Whole class Group work Pair work Individual work 	 U1_L1_ALL3.docx U1_L1_ALL3.pdf U1_L1_ALL3 (task about the learnt definitions) 	Formative: T monitors the discussions and helps Ss find an agreement on uncertain answers. Peer: Ss correct each other exchanging ideas.

Unit number	1	Lesson number	2	Title	Concept of time
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Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment

2	25	Retell in Ss' own words the content of the analyzed videos and web pages about the concept of time. Evaluate other groups' works. Recall prior knowledge and recognize new one (metacognition).	T distributes one evaluation grid per group and invites Ss to complete them after listening to each presentation. Each group of Ss delivers their own presentation, while the other groups listen carefully and ask questions, if they feel like. At the end of each presentation, every group fills the corresponding line on the evaluation grid. Ss should come to an agreement in each group, since there is only one grid per group.	Skills L S R W Key vocabulary Time Communicative Structures As you can see According to the material From the point of view ofit appears that On the other hand Although	 Whole class Group work Pair work Individual work 	• U1_L2_ALL5.pdf • U1_L2_ALL5.xlsx U1_L2_ALL5 (evaluation grid)	Formative: T models content, after each group's presentation. T also observes Ss in their group while they are evaluating other groups' works. Peer: Ss evaluate other Ss' works.
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3	15	Understand the main aspects of the concept of time and identify similarities and dissimilarities between any two ways of looking at it.	T invites Ss to share what they have just written on their grids, justifying their comments and conclusions. After that, T invites the class to discuss in order to point out similarities and differences in various concepts of time.	Skills L S R W Key vocabulary Time V	 Whole class Group work Pair work Individual work 	• U1_L2_ALL5.pdf • U1_L2_ALL5.xlsx U1_L2_ALL5 (evaluation grid)	Formative: T elicits language.
				Communicative structures In our opinion The reason why is According to, while			

Unit number

Lesson number

1

3 Title

Space-time and speed-time diagrams

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	35	Interpret space-time and speed- time 	T hands out the worksheets and invites Ss to work in pairs to complete the assigned tasks. Ss work in pairs and use their smartphones to explore an online simulation of a moving man, following the instructions on the worksheets to get confident with space-time and speed-time charts. Ss	Skills L S R W Key vocabulary Time, time interval, position, speed, velocity, acceleration, movement, forwards, backwards, remaining still, diagram, chart, graph, constant, function, axis.	 Whole class Group work Pair work Individual work 	 U1_L3_ALL1.docx U1_L3_ALL1.pdf Ss' Smartphones. U1_L3_ALL1 (worksheets with links to an online simulation and some tasks to be completed in relation to it) 	Formative: T models content and cognition, helping Ss understand graphs and their meaning.
			should discuss in their pair to agree on what to write to answer the given questions.	Communicative structures In my opinion What is the meaning of? Look at the graph Considering what happens in the simulation, I can assume that			

2	10	Compare results in order to define what a space- time and a speed-time charts are.	T invites Ss to compare results, asking them to take turns to share their answers. Whenever a S proposes an answer, T asks the others whether they agree or not and why.	Skills L S R W Key vocabulary Time, time interval, position, speed, velocity, acceleration, movement, forwards, backwards, remaining still, diagram, chart, graph, constant, function, axis. Communicative structures Why do you say that? Do you agree on? What happens if? How can you tell?	 Whole class Group work Pair work Individual work 	• U1_L3_ALL1.docx • U1_L3_ALL1.pdf Ss' smartphones U1_L3_ALL1 (worksheets with links to an online simulation and some tasks to be completed in relation to it)	Formative: T models or elicits language and content.
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3	10	Compare space-time, speed-time charts and motion descriptions and identify the same features seen from different points of view.	T distributes one graph or description per S and tells them that all given papers describe four situations overall: every situation is described through a space-time chart, a speed-time chart and a written description. Of course, T must have cut the papers in advance. Ss should circulate and describe to other Ss what they have without showing their card, in order to find their match (triad). While Ss are looking for their match, T circulates to facilitate and to help Ss with the language. When Ss find a match, they ask T to check if it is right or not.	Skills L S R W Key vocabulary Vocabulary Vocabulary Time, time interval, position, speed, velocity, acceleration, movement, forwards, backwards, remaining still, diagram, chart, graph, constant, function, axis. Vocabulary	 Whole class Group work Pair work Individual work 	• U1_L3_ALL2.docx • U1_L3_ALL2.pdf U1_L3_ALL2 (cards containing graphs or descriptions to be matched)	Formative: T models or elicits language. When Ss find a match, T checks it and gives Ss a feedback about its correctness.
				Communicative structures In my graph there is At first the object is moving with then First then From to After Before Do you have in your graph? I am looking for a graph which			

4	25	Create a space-time	T forms four groups on the basis on the matches	Skills	Whole class	Pens and paper.	Formative: T models or
		chart and recognize its features.	found in the previous activity. Then, T invites every group to produce two copies of the same space-time chart, with random features. When all groups have produced their graphs, one copy is handed in to the T, who mixes the graphs. T then redistributes those graphs randomly and every group needs to analyze the received graph. Finally, T invites one representative per group to play the received graph for real, walking through the classroom: every group should look at the walking classmate and compare his or her movements to the kept copy of the graph they have produced. Every group should recognize the play of their own original graph.	L S R W Key vocabulary Time, time interval, position, speed, velocity, acceleration, movement, forwards, backwards, remaining still, diagram, chart, graph, constant, function, axis. Communicative structures In this graph there is That is our graph because At first the object is moving with then First then Fromto After Before	 ■ Group work □ Pair work □ Individual work 		elicits language and content. T checks whether Ss' interpretations of the charts is correct.

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space-unie chart and convert it into a speed-time chart and vice-versa. Interpret such graphs. Evaluate differences and analogies between graphs.

groups as in the previous activity and labels them with a letter A. B. C. D. Then. T invites every aroup to produce one simple space-time chart, with random features. When all groups have produced their graphs, all groups hand them in to another group (A to B, B to C, C to D and D to A). Ss are required to build the corresponding speedtime chart and write the initial position. When all groups have produced their new graphs, they pass them on (A to B, B to C, C to D and D to A). All aroups should now build the corresponding space-time chart from the information they can infer from the received chart. In the end, all groups receive the original space-time chart corresponding to their situation (A's original given to C, B's original given to D, C's original given to A, D's original given to B) and compare it with the one they produced themselves, in



Key vocabulary Time, time interval, position, speed, velocity, acceleration, movement, forwards, backwards, remaining still, diagram, chart, graph, constant, function, axis.

Communicative structures

In this graph there is... That is our graph because... At first the object is moving with... then... First... then... From...to... After... Before... Whole class
 Group work
 Pair work
 Individual work

IIIUUCIS UI elicits language and content. T checks whether Ss' interpretations of the charts is correct. Self: Ss compare their products with the expected ones, corresponding to the original graphs.

rder to check what got rong and what they did ight. During all activity, T irculates to elicit content nd language, helping Ss pterpret graphs	
orrectly.	

Unit number

Lesson number

2

Title

1

Introduction to UM

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	30	Formulate a model to describe UM, by finding a formula to express position in function of time. Interpreting the main features of UM in the light of its speed-time and space-time charts. Distinguish UM from other examples of motion, where either speed or direction are not constant.	T introduces the topic, telling Ss they are going to analyze a particular example of motion. Then T distributes the worksheets and invites Ss to complete them in pairs, agreeing on the answers to provide. Then T circulates to facilitate.	Skills L S R W Key vocabulary Uniform, constant, velocity, speed, direction, position, time, axis, straight line, angular coefficient, slope, intercept. Communicative structures I think that Why is the graph? It doesn't look like a UM because	 Whole class Group work Pair work Individual work 	 U2_L1_ALL1.docx U2_L1_ALL1.pdf U2_L1_ALL1 (worksheet to approach UM, finding a formula and interpreting its meaning) 	Formative: T elicits or models language.

2	10	0 Compare Ss' ideas to come to a common formalization of UM.	T invites every two pairs to join and compare their answers, in order to come to an agreed final answer for each question or task in the worksheet. Ss are invited to defend their answers providing justification and reasoning.	SkillsLSRWKey vocabularyUniform, constant, velocity, speed, direction, position, time, axis, straight line, angular coefficient, slope, intercept.	 Whole class Group work Pair work Individual work 	 U2_L1_ALL1.docx U2_L1_ALL1.pdf U2_L1_ALL1 (worksheet to approach UM, finding a formula and interpreting its meaning) 	Formative: T elicits or models language. Peer: Ss compare results, correcting each other.
				Communicative structures We think that Our answer is different from yours because I agree with you up to a point, because I disagree			

3	10	Combine all Ss' ideas to formulate a final model about UM and summarize its features.	T invites all Ss to share the final answers they have just agreed on. Every group can ask other groups for clarification, if they do not agree on some point. In the end, Ss are invited to summarize what they have learnt and T makes sure that the equation for UM comes to light, as well as the main features of the related space-time and speed-time charts.	Skills L S R W Key vocabulary W Uniform, constant, velocity, speed, direction, position, time, axis, straight line, angular coefficient, slope, intercept. Straight line, angular coefficient, slope, intercept.	 Whole class Group work Pair work Individual work 	 U2_L1_ALL1.docx U2_L1_ALL1.pdf U2_L1_ALL1 (worksheet to approach UM, finding a formula and interpreting its meaning) 	Formative: T elicits or models both content and language.
				Communicative structures The equation to describe UM is, wheremeans The slope of the space-time chart is If we consider the speed-time chart, we have			

Unit number	2	Lesson number	2	Title	Experiment on UM
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Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
		ouccomes					

L	10	Identify the	T projects the slide and	Skills	Whole	• U2_L2_ALL1.jpg	Formative: T	
		of an	the experimental	L S R W	Group	Physics Lab Experimental	models	
	apparatus and give opinions and formulate hypotheses about its functioning.	how it works. T invites Ss to discuss about the way that experimental material could be used to test and verify the main properties of	Key vocabulary Acceleration, velocity, speed, uniform motion, time, distance, photocell, pulley, string, air track,	□ Pair work □ Individual work	U2_L2_ALL1 U2_L2_ALL1 (slide with the image of the experimental apparatus)	and content.		
		Design an experiment to analyze the main properties of a uniform motion, with particular attention to the constancy of speed under certain conditions.	uniform motion. Particular attention must be paid on the fact that the two photocells can be moved (so the distance between them can change) and on the presence of the stopping plane: specific questions should be asked about its relevance and about the position it should have. Ss interact with one another to come to an agreement about the way to conduct the experiment. Along the process, T helps Ss to come to an end, formulating stimuli	Communicative structures What is the purpose of? In my opinion What happens if? Why could we not? Speed should be constant because Another idea could be Is it not possible to? I am not sure, but The reason whyis				

2	35	Perform the agreed experiment, measuring time and distance and calculating speed, in order to find out what the main properties of a uniform motion are.	T forms small groups (three Ss per group) and distributes one laptop per group. T makes four Ss come out at a time (one per group) and use the experimental apparatus: one S sets the position of the photocells and measures the distance between them; another S puts the cart in position paying attention to the position of the string on the pulley and of the stopping plane; a third S activates the air track and deactivates the electromagnet from the PC; a fourth S writes the collected data on the whiteboard, to make sure all Ss have them. While the experimenters are working, the remaining Ss complete the data table T has previously shared with them. Every time a new measurement is taken, T invites four other Ss to come out.	Skills	 Whole class Group work Pair work Individual work 	 U2_L2_ALL1.jpg U2_L2_ALL2.pdf U2_L2_ALL2.xlsx Physics Lab Experimental apparatus as shown in U2_L2_ALL1 Laptops U2_L2_ALL2 (data table to be filled during the experiment) 	Formative: T models content, helping Ss use the experimental material appropriately and paying attention on the table filling.	

3	35	Analyze the collected data, elaborating them with appropriate calculations and graphs.	T invites all groups to focus on data and to use them to complete the guided lab report T must have shared in advance. Ss follow the instructions on the digital worksheet and discuss in their group about the way to use a spreadsheet in	Skills L S R W Key vocabulary Acceleration, velocity, speed, uniform motion, time, distance, photocell, pulley, string, air track,	Whole class ■ Group work ■ Pair work Pair work Individual work Physic Experi- appar U2_L2 U2_L2 table during exper- U2_L2 lab re	 U2_L2_ALL1.jpg U2_L2_ALL2.pdf U2_L2_ALL2.xlsx U2_L2_ALL3.docx U2_L2_ALL3.pdf Physics Lab Experimental apparatus as shown in U2_L2_ALL1 Laptops 	Formative: T models content and elicits language.
			order to complete the data processing on the previous table and to build appropriate space- time and speed-time charts. Following the questions on the worksheets, Ss are led to interpret the acquired data in the light of a uniform motion. T makes clear that the yellow parts on the guided lab report (the instructions) are to be removed, so that the final document is a proper and real lab report. T circulates to	Communicative structures This happens because If there weren't the stopping planeis calculated by applying		table to be filled during the experiment) U2_L2_ALL3 (guided lab report)	

4	20	Evaluate one's own and other Ss' lab reports and give opinions about possible ways to improve them.	T invites all groups to exchange the produced lab report (A to B, B to C,) and Ss comment on the received lab report, writing notes about possible ways to improve it and correct it. When they are ready, Ss pass the reports back to the respective original authors, who decide what suggestions to accept and what to ignore, in order to make their lab report more complete and correct. At the end of the lesson Ss send to T all their final versions of the lab reports, to be assessed.	SkillsLSRWKey vocabularyAcceleration, velocity, speed, uniform motion, time, distance, photocell, pulley, string, air track,Communicative structuresThis part is not correct, because An improvement could be To be more precise, you should state that In my opinion Are you sure about?	 Whole class Group work Pair work Individual work 	 U2_L2_ALL1.jpg U2_L2_ALL2.pdf U2_L2_ALL2.xlsx U2_L2_ALL3.docx U2_L2_ALL3.pdf Physics Lab Experimental apparatus as shown in U2_L2_ALL1 Laptops U2_L2_ALL2 (data table to be filled during the experiment) U2_L2_ALL3 (guided lab report) 	Peer and Self: Ss exchange material and evaluate one's own and other's. Summative: at the end of the lesson, T receives all lab reports, which are evaluated and assessed.
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Unit number

Lesson number

2

Title

3

Problems about UM

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	15	Interpret the meaning and the use of a simulation which describes uniform motion.	T forms small groups (three people per group) and distributes one laptop per group and one worksheet per S. T must have shared the simulation in advance, so Ss can open it on their laptops in order to explore it. Ss perform only Task 1 in their group, in order to familiarize themselves with the software and its functioning. Then results are shared in plenary and T ensures that all Ss have understood how to use the simulation and the meaning of its parts. If necessary, T runs the simulation on the smartboard in order to make all parts clear.	Skills L S R W Key vocabulary Velocity, speed, initial position, slider, straight line, settings, intersection, diagrams. Communicative straight line, settings, intersection, diagrams. What happens when? What happens when? What is the physical meaning of? How does the situation change if? The charts represent	 Whole class Group work Pair work Individual work 	 U2_L3_ALL1.docx U2_L3_ALL1.pdf U2_L3_ALL2.zip Laptops GeoGebra U2_L3_ALL1 (worksheets, only Task 1 for this activity) U2_L3_ALL2 (GeoGebra simulation about uniform motion) 	Formative: T models content and cognition.

2	25	Apply what is known to solve basic problems about UM.	T invites Ss to complete the guided exercises they can find on the worksheets (Task 2): they help Ss get confident with the simulation and with some useful techniques to face problems about uniform motion (find position, time, speed, meeting point or time, convert units,). Ss complete the guided exercises in their groups and use the simulation to check answers and hypotheses. T circulates and monitors general understanding of the guided exercises, which are the basis for the comprehension of the following ones.	Skills L S R W Key vocabulary Velocity, speed, initial position, slider, straight line, settings, intersection, diagrams, axis.	 Whole class Group work Pair work Individual work 	 U2_L3_ALL1.docx U2_L3_ALL1.pdf U2_L3_ALL2.zip Laptops U2_L3_ALL1 (worksheets, only Task 2 for this activity) U2_L3_ALL2 (GeoGebra simulation about uniform motion) 	Formative: T models content and elicits language.
				Communicative structures Look at the simulation Let's consider This system yields the solution According to			

3	50	Find out strategies to solve new open problems.	T invites Ss to complete the open exercises they can find on the worksheets (Task 3). Ss apply the learnt techniques and use the GeoGebra simulation to check their answers and hypotheses, self-correcting and peer-correcting according to the scaffolding provided by the simulation. T circulates to facilitate and monitor general understanding.	Skills L S R W Key vocabulary Velocity, speed, initial position, slider, straight line, settings, intersection, diagrams, axis.	 Whole class Group work Pair work Individual work 	 U2_L3_ALL1.docx U2_L3_ALL1.pdf U2_L3_ALL2.zip Laptops U2_L3_ALL1 (worksheets, only Task 3 for this activity) U2_L3_ALL2 (GeoGebra simulation about uniform motion) 	Self: Ss use a simulation to get immediate feedback about their errors and mistakes. Formative: T models
				Communicative structures Look at the simulation Let's consider This system yields the solution According to			content and elicits language.

4	10	Evaluate and correct other Ss' work.	T makes every group join another one. Ss should share doubts and breakthroughs with the new group members and help each other understand better the concepts which were not clarified by the	SkillsLSRWKey vocabularyAcceleration, velocity, speed, motion, position, time, force,	 Whole class Group work Pair work Individual work 	 U2_L3_ALL1.docx U2_L3_ALL1.pdf U2_L3_ALL2.zip Laptops U2_L3_ALL1 (worksheets, only Task 3 for this activity) U2_L3_ALL2 (GeoGebra simulation 	Peer: Ss help each other clarify doubts. Formative: T elicits or models the language.
			simulation alone.	Communicative structures Why is your result different? How did you get to that solution? How did your group face that problem?		about uniform motion)	

Unit number

Lesson number

3

1 **Title**

Introduction to UAM

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	25	Formulate a model to describe UAM, by finding a formula to express position in function of time. Interpreting the main features of UAM in the light of its speed-time and space- time charts.	T introduces the topic, telling Ss they are going to analyze a particular example of motion. Then T distributes the worksheets and invites Ss to complete them in pairs, agreeing on the answers to provide. Then T circulates to facilitate.	Skills L S R W	□ Whole class □ Group	• U3_L1_ALL1.docx • U3_L1_ALL1.pdf U3 L1 ALL1	Formative: T models content and cognition.
				Key vocabulary Uniformly accelerated, constant acceleration, changing speed, direction, position, time, axis, straight line, parabola.	work Pair work Individual work	(worksheet to find out the formula of UAM and to understand its meaning)	
				Communicative structures I think that Why is the graph? Hence Therefore First of all by definition Since			

2	15	Compare Ss' ideas to come to a common formalization of UAM.	T invites every two pairs to join and compare their answers, in order to come to an agreed final answer for each question or task in the worksheet. Ss are invited to defend their answers providing justification and reasoning.	Skills L S R W Key vocabulary Wiformly accelerated, constant acceleration, changing speed, direction, position, time, axis, straight line, parabola. Communicative structures I think that Why is the graph? Hence I think that Why is the graph? Hence W	 Whole class Group work Pair work Individual work 	• U3_L1_ALL1.docx • U3_L1_ALL1.pdf U3_L1_ALL1 (worksheet to find out the formula of UAM and to understand its meaning)	Formative: T elicits or models language. Peer: Ss compare results and correct each other.
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3	10	Combine all Ss' ideas to formulate a final model about UAM and summarize its features.	T invites all Ss to share the final answers they have just agreed on. Every group can ask other groups for clarification, if they do not agree on some point. In the end, Ss are invited to summarize what they have learnt and T makes sure that	SkillsLSRWKey vocabularyUniformly accelerated, constant acceleration, changing speed, direction, position, time, axis, straight line, parabola.	 Whole class Group work Pair work Individual work 	• U3_L1_ALL1.docx • U3_L1_ALL1.pdf U3_L1_ALL1 (worksheet to find out the formula of UAM and to understand its meaning)	Formative: T elicits or models both content and language.
			the two equations for UAM (position and velocity) come to light, as well as the main features of the related space-time and speed- time charts. T invites Ss to consider similarities and dissimilarities between UM and UAM.	Communicative structures The equation to describe UAM is, where means The shape of the space-time chart is If we consider the speed-time chart, we have because The main difference between the equation for UM and that for UAM is			

Unit number	3	Lesson number	2	Title	Experiment on UAM
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Activity Timing Learning Activity Procedure Language Interaction Materials Astronomy Outcomes Outcomes <td< th=""><th>Mat</th><th>Interaction</th><th>Language</th><th>Activity Procedure</th><th>Learning Outcomes</th><th>Timing</th><th>Activity</th></td<>	Mat	Interaction	Language	Activity Procedure	Learning Outcomes	Timing	Activity
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1	10	Memorize the characteristics of a tracking software.	Ss in plenary listen to T who explains how to use the software Tracker, by showing the provided example or directly processing a video about a generic motion (preferably not UAM, not to give Ss answers in advance). T pays much attention in pointing out	Skills L S R W Key vocabulary Acceleration, velocity, speed, uniformly accelerated motion, time, distance, camera, spatial reference, frame rate, deinterlace filter, background	 Whole class Group work Pair work Individual work 	• U3_L2_ALL1.docx • U3_L2_ALL1.pdf Physics Lab Tracker U3_L2_ALL1 (Tracker example)	Formative: T models content and cognition.
			the relevance of: - a homogeneous background for the video; - the orthogonal position of the camera; - the presence of length references; - the deinterlace filter. All explanation is interactive: T invites Ss to suggest why all previous aspects are relevant and what would happen if they were not properly taken into	Communicative structures Why is relevant? What happens if? What is the reason why?			

2	5	Design an experiment to investigate the properties of a UAM.	T projects the same slide of the experiment about UM and asks Ss what should be modified in the experimental apparatus to analyze a UAM instead of a UM. Ss propose their ideas and come to a general agreement under T's guidance.	Skills L S R W Key vocabulary Key vocabulary Acceleration, velocity, speed, uniform and uniformly accelerated motion motion, time, distance, photocell, pulley, string, air track, camera, spatial reference, frame rate, deinterlace filter, background,	 Whole class Group work Pair work Individual work 	• U3_L2_ALL4.jpg Physics Lab Experimental apparatus as shown in U3_L2_ALL4 U3_L2_ALL4 (image of the experimental apparatus)	Formative: T models content and cognition.
				Communicative structures Why is relevant? What happens if? What is the reason why?			

3	30	Perform the agreed experiment,	T forms small groups (three Ss per group) and distributes laptops and	Skills L S R W	□ Whole class ■ Group	 U3_L2_ALL2.docx U3_L2_ALL2.pdf Physics Lab Laptops	Formative: T models content and
		filming a body moving with UAM and analyzing its properties with a tracking software.	guideline to use Tracker to explore the properties of a uniformly accelerated motion. Ss take turns to use the experimental apparatus and use their smartphones to shoot one video per group.	Key vocabulary Acceleration, velocity, speed, uniform and uniformly accelerated motion, time, distance, photocell, pulley, string, air track, camera, spatial reference, frame rate, deinterlace filter, background,	work Pair work Individual work	Ss' smartphones Tracker U3_L2_ALL2 (guideline to perform the experiment and analyze data with Tracker)	cognition.
			videos by using Tracker.	Communicative structures Why is relevant? What happens if? What is the reason why?			

4	35	Analyze the collected data, elaborating them with appropriate calculations and graphs.	T invites all groups to focus on the data obtained through the videos and to use them to complete the guided lab report T must have shared in advance. Ss follow the instructions on the digital worksheet and discuss in their group about the way to interpret the acquired data in the light of a uniformly accelerated	Skills L S R W Key vocabulary Acceleration, velocity, speed, uniform and uniformly accelerated motion, time, distance, photocell, pulley, string, air track, camera, spatial reference, frame rate, deinterlace filter, background,	 Whole class Group work Pair work Individual work 	 U3_L2_ALL2.docx U3_L2_ALL2.pdf U3_L2_ALL3.docx U3_L2_ALL3.pdf Physics Lab Laptops Ss' smartphones Tracker U3_L2_ALL2 (guideline perform the experiment and analyze data with Tracker) U3_L2_ALL3 (guided lab report)	Formative: T models content and elicits language.
			motion. T makes clear that the yellow parts on the guided lab report (the instructions) are to be removed, so that the final document is a proper and real lab report. T circulates to facilitate.	Communicative structures This happens because As we can see from the graphis calculated by applying This is (not) consistent with what we already know because			

5	20	Evaluate one's own and other Ss' lab reports and give opinions about possible ways to improve them.	T invites all groups to exchange the produced lab report (A to B, B to C,) and Ss comment on the received lab report, writing notes about possible ways to improve it and correct it. When they are ready, Ss pass the reports back to the respective original authors, who decide what suggestions to accept and what to ignore, in order to make their lab report more complete and correct. At the end of the lesson Ss send to T all their final versions of the lab reports, to be assessed.	SkillsLSRWKey vocabularyAcceleration, velocity, speed, uniform and uniformly accelerated motion, time, distance, photocell, pulley, string, air track, camera, spatial reference, frame rate, deinterlace filter, background,Communicative structuresThis part is not correct, because An improvement could be To be more precise, you should state that In my opinion Are you sure about? In our report we did not take account of but	 □ Whole class ■ Group work □ Pair work □ Individual work 	 U3_L2_ALL2.docx U3_L2_ALL2.pdf U3_L2_ALL3.docx U3_L2_ALL3.pdf Physics Lab Laptops Ss' smartphones Tracker U3_L2_ALL2 (guideline perform the experiment and analyze data with Tracker) U3_L2_ALL3 (guided lab report) 	Peer and Self: Ss exchange material and evaluate one's own and other's. Summative: at the end of the lesson, T receives all lab reports, which are evaluated and assessed.
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Unit number

Lesson number

3

Title

3

Introduction to FF

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10	Predict the behavior of falling objects, formulating hypotheses about a specific experiment.	T introduces the topic pointing out that the purpose of the lesson is to determine whether a free fall is a UM or a UAM. T hands out the worksheets and invites Ss to complete Task 1 and Task 2 only. Of course, T must have prepared in advance the experimental material, consisting in two cords with some tied iron nuts, respecting the distances indicated on the worksheets. Ss work in pairs to complete the first two tasks on the worksheets in order to predict the behavior of falling objects.	Skills L S R W	□ Whole class □ Group	• U3_L3_ALL1.docx • U3_L3_ALL1.pdf Physics Lab Experimental material as shown on U3_L3_ALL1 (hanging cords) U3_L3_ALL1 (worksheet to analyze the properties of a free fall)	Formative: T models language
				Key vocabulary Acceleration, velocity, fall, free fall, gravity, hang, cord, iron nut, distance, regular sound, increasing distances.	work Pair work Individual work		and cognition.
				Communicative structures Observe that What are similarities and differences between? Predict what will happen if			

2	10	Compare ideas and share predictions.	Ss, invited by T, share with the entire class their prediction. If their predictions are different from one another, they can ask other Ss to give reasons.	Skills L S R W Key vocabulary Key vocabulary Acceleration, velocity, fall, free fall, gravity, hang, cord, iron nut, distance, regular sound, increasing distances. Structures Why do you think that? In my opinion Our prediction is that? How can you tell?	 Whole class Group work Pair work Individual work 	• U3_L3_ALL1.docx • U3_L3_ALL1.pdf Physics Lab Experimental material as shown on U3_L3_ALL1 (hanging cords) U3_L3_ALL1 (worksheet to analyze the properties of a free fall)	Formative: T models language and cognition.
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3	10	Perform an experiment about free fall and analyze its main	erform an (perimentT invites Ss to perform the experiment. Two Ss will reach a upper point (e.g. stairs in the school hall, a ladder, a window,) and will hold the two	SkillsLSRWKey vocabulary (none)	 Whole class Group work Pair work Individual 	 U3_L3_ALL1.docx U3_L3_ALL1.pdf U3_L3_ALL2.zip Physics lab Experimental material 	(none)
		features.	hanging cords, to release them separately. All the other Ss watch carefully, paying much attention to the sound the two cords will produce once released. If they want to, Ss can use their smartphones to shoot a video of the falling cords, in order to listen to it in slow-mo (an example is provided). It could be necessary to repeat the experiment more than once to hear the sound clearly.	Communicative structures Please, release the cords.	work	U3_L3_ALL1 (hanging cords) U3_L3_ALL1 (worksheet to analyze the properties of a free fall) Ss' smartphones U3_L3_ALL2 (examples of videos)	

4 10	10	Analyze the observed phenomenon.	T invites Ss to complete the final part of the worksheet, according to what they have observed, listened to and recorded. Ss work in pairs to complete the tasks.	Skills L S R W Key vocabulary Acceleration, velocity, fall_free fall_gravity	 Whole class Group work Pair work Individual 	ole• U3_L3_ALL1.docxss• U3_L3_ALL1.pdfoup• U3_L3_ALL2.ziprkPhysics Labr workExperimental materialas shown onU3_L3_ALL1 (hangingcords) U3_L3_ALL1(worksheet to analyzethe properties of a free	Formative: T models language and cognition.
				hang, cord, iron nut, distance, regular sound, increasing distances.	work		
				Communicative structures Observe that If then Hence We can conclude that		fall) Ss' smartphones with the shot videos (example on U3_L3_ALL2)	

5	10 Compare ideas and share predictions. Identify free fall as an instance of uniformly accelerated motion.	Ss, invited by T, share with the entire class their conclusions and inferences, also reading their answers on the worksheet. If their observations and reasoning are different from one another, they can ask other Ss to give	Skills L S R W Key vocabulary Acceleration, velocity, fall, free fall, gravity, hang, cord, iron nut, distance, regular sound, increasing distances.	 Whole class Group Work Pair work Individual work U3_L3 cords) (comp to ana 	 U3_L3_ALL1.docx U3_L3_ALL1.pdf U3_L3_ALL2.zip Physics lab Experimental material as shown on U3_L3_ALL1 (hanging cords) U3_L3_ALL1 (completed worksheet to analyze the 	Formative: T models language, content and cognition.	
			reasons. I makes sure that all Ss understand that free fall is an instance of uniformly accelerated motion.	Communicative structures Why do you think that? In my opinion Our conclusion is that How can you tell?		properties of a free fall) Ss' smartphones with the shot videos (example on U3_L3_ALL2)	

Unit number

Lesson number

3

4 **Title**

Measuring g through FF

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10	Recall that free fall is a uniformly accelerated motion and find out that all objects fall with the same acceleration.	T hands out the worksheets and invites Ss to read the passage in Task 1. Then T plays the linked video on the smartboard so that all Ss can watch it together. If something is not clear to Ss (the video is meant just as a little glimpse on a much wider issue) T can answer quickly to some answers, keeping in mind that the only concept Ss should acquire in this context is that g does not depend on the mass of a free falling object. T can then provide a demonstration of the same fact with a Newton tube, if available.	Skills L S R W Key vocabulary Key vocabulary Acceleration, free fall, vacuum chamber, air resistance, mass, Communicative structures Surprisingly, Even though we might think that, How is it possible that?	 Whole class Group work Pair work Individual work 	 U3_L4_ALL1.docx U3_L4_ALL1.pdf U3_L4_ALL1 (worksheet. This activity involves only Task 1 and the video linked on the worksheet) Newton tube (if available) 	Formative: T models content and cognition.

2	10	Design an experiment to measure g through free fall.	T invites Ss to work in pairs to complete Task 2 on the same worksheet, referring both to the picture and to the real experimental apparatus T shows the class. They complete the task, guided in designing an experiment about free fall. T circulates to help.	Skills L S R W Key vocabulary Gravity acceleration, free fall, air resistance, mass, release, electromagnet, photocell, support, axis, position, velocity,	 Whole class Group work Pair work Individual work 	• U3_L4_ALL1.docx • U3_L4_ALL1.pdf Physics Lab Experimental apparatus as shown in U3_L4_ALL1 U3_L4_ALL1 (worksheet. This activity involves only Task 2)	Formative: T models content and cognition.
				Communicative structures Since According to We couldthen Hence			

3	20	Perform an experiment to measure g through free fall.	T forms small groups (three Ss per group). T makes four Ss come out at a time (one per group) and use the experimental apparatus: one S sets the position of the movable photocell and measures the distance between it and the electromagnet; another S activates and	Skills	Whole	• U3_L4_ALL1.docx	Formative: T models content, helping Ss use the experimental material appropriately and paying attention on the table
				L S R W	Group	Physics Lab Experimental apparatus as shown in U3_L4_ALL1 U3_L4_ALL1 (worksheet)	
				Key vocabulary Gravity acceleration, free fall, air resistance, mass, release, electromagnet, photocell, support, axis, position, velocity,	□ Pair work □ Individual work		
			deactivates the electromagnet from the PC; a third S gets ready to catch the falling ball before it rolls on the floor; a fourth S writes the collected data on the whiteboard, to make sure all Ss have them. While the experimenters are working, the remaining Ss complete the data table on the worksheet. Every time a measurement is taken, a new set of four Ss comes out to take another one.	Communicative structures Attach the photocell Release the ball Switch the electromagnet off!			filling.

4	10	Analyze the collected data and	Ss work in their groups to complete the table on the worksheet in order to	Skills L S R W	Whole class Group work	• U3_L4_ALL1.docx • U3_L4_ALL1.pdf Physics Lab	Formative: T models content and
		interpret their meaning.	process the collected data and come to a final value for g. T circulates to help.	Key vocabulary Gravity acceleration, free fall, axis, position, velocity, multiply, divide, calculate, average, half-the- spread, consistent, within the error Communicative structures It is not consistent because We should calculate	work Pair work Individual work	Experimental apparatus as shown in U3_L4_ALL1 U3_L4_ALL1 (worksheet)	language.

Unit number	3	Lesson number	5	Title	Problems about UAM
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Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment

1	10	Interpret the meaning and the use of a simulation which describes uniform motion.	T forms small groups (three Ss per group) and distributes one laptop per group and one worksheet per S. T must have shared the first simulation in advance, so Ss can open it on their laptops in order to explore it. Ss perform only Task 1 in their group, in order to familiarize themselves with the software and its functioning. Then results are shared in plenary and T ensures that all Ss have understood how to use the simulation and the meaning of its parts, also in comparison with previous simulations Ss have already used. If necessary, T runs the simulation on the smartboard in order to make all parts clear.	Skills L S R W Key vocabulary Velocity, speed, initial position, slider, straight line, settings, intersection, diagrams, parabola, acceleration, space-time chart, Communicative structures What happens when? What is the physical meaning of? How does the situation change if? The charts represent	 Whole class Group work Pair work Individual work 	 U3_L5_ALL1.docx U3_L5_ALL1.pdf U3_L5_ALL2.zip Laptops GeoGebra U3_L5_ALL1 (worksheets, only Task 1 for this activity) U3_L5_ALL2 (GeoGebra simulation about uniformly accelerated motion) 	Formative: T models content and cognition.
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2	25	Apply what is known to solve basic problems about UAM.	T invites Ss to complete the guided exercises they can find on the worksheets (Task 2): they help Ss get confident with the simulation and with some useful techniques to face problems about uniformly accelerated motion (find position, time, speed, meeting point or time). Ss complete the guided exercises in their groups and use the simulation to check answers and hypotheses. T circulates and monitors general understanding of the guided exercises, which are the basis for the comprehension of the following ones.	Skills L S R W Key vocabulary Velocity, speed, initial position, initial velocity, slider, straight line, parabola, settings, intersection, diagrams, axis.	□ Whole class ■ Group work □ Pair work □ Individual work ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	 U3_L5_ALL1.docx U3_L5_ALL1.pdf U3_L5_ALL2.zip Laptops GeoGebra U3_L5_ALL1 (worksheets, only Task 2 for this activity) U3_L5_ALL2 (GeoGebra simulation about uniformly accelerated motion) 	Formative: T models content and elicits language.
				Communicative structures Look at the simulation Let's consider This system yields the solution According to			

3	40	Find out strategies to solve new open problems about uniformly accelerated motion.	T invites Ss to complete the open exercises they can find on the worksheets (Task 3). Ss apply the learnt techniques and use the first GeoGebra simulation to check their answers and hypotheses, self-correcting and peer- correcting according to the scaffolding provided by the simulation. T circulates to facilitate and monitor general understanding.	Skills L S R W Key vocabulary Velocity, speed, initial position, initial velocity, slider, straight line, parabola, settings, intersection, diagrams, axis.	 Whole class Group work Pair work Individual work 	 U3_L5_ALL1.docx U3_L5_ALL1.pdf U3_L5_ALL2.zip Laptops GeoGebra U3_L5_ALL1 (worksheets) U3_L5_ALL2 (GeoGebra simulation about uniformly accelerated motion) 	Self: Ss use a simulation to get immediate feedback about their errors and mistakes. Formative: T elicits content and
				Communicative structures Look at the simulation Let's consider This system yields the solution According to			language.

4	15	Find out strategies to solve new open problems about free fall.	T invites Ss to complete the open exercises they can find on the worksheets (Task 4). Ss apply the learnt techniques and use the second GeoGebra simulation to check their answers and hypotheses, self-correcting and peer- correcting according to the scaffolding provided by the simulation. T circulates to facilitate and monitor general understanding.	SkillsLSRWKey vocabularyVelocity, speed, initial position, initial velocity, slider, straight line, parabola, settings, intersection, diagrams, axis.	 Whole class Group work Pair work Individual work Laptops GeoGebra U3_L5_ALL3.zip Laptops GeoGebra U3_L5_ALL1 (worksheets) U3_L5_ALL2 (GeoGebra simulation about uniformly accelerated motion) U2_L3_ALL3 (GeoGebra simulation about free fall) 	 U3_L5_ALL1.docx U3_L5_ALL1.pdf U3_L5_ALL2.zip U3_L5_ALL3.zip Laptops GeoGebra U3_L5_ALL1 (worksheets) U3_L5_ALL2 (GeoGebra simulation about uniformly accelerated motion) 	Self: Ss use a simulation to get immediate feedback about their errors and mistakes. Formative: T elicits content and
				Communicative structures Look at the simulation Let's consider This system yields the solution According to		U2_L3_ALL3 (GeoGebra simulation about free fall)	language.

5	10	Evaluate and correct other Ss' work.	T makes every group join another one. Ss should share doubts and breakthroughs with the new group members and help each other understand better the concepts which were not clarified by the simulation alone. T circulates to facilitate.	SkillsLSRWKey vocabularyVelocity, speed, initial position, initial velocity, slider, straight line, parabola, settings, intersection, diagrams, axis.	 □ Whole class ■ Group work □ Pair work □ Individual work () 4 4	 U3_L5_ALL1.docx U3_L5_ALL1.pdf U3_L5_ALL2.zip U3_L5_ALL3.zip Laptops GeoGebra U3_L5_ALL1 (worksheets) U3_L5_ALL2 (GeoGebra simulation about uniformly accelerated motion) U2_L3_ALL3 (GeoGebra simulation about free fall) 	Peer: Ss help each other clarify doubts. Formative: T elicits or models the language.
				Communicative structures Why is your result different? How did you get to that solution? How did your group face that problem?			

Unit number

Lesson number

4

1

Final recap

Title

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50	Recall all learnt concepts in order to revise them. Identify correct definitions and answers to close questions. Calculate physical quantities by using what learnt	T projects the slide to make Ss use their smartphones to go on kahoot.com. T also writes on the whiteboard the access code to join the questionnaire. Ss use their smartphones to access the recap questionnaire. When all of them are in, T makes the quiz start. After every question, Ss should feel free to ask both T and other Ss what they have not understood correctly, in order to clarify base concepts. Although every S answers the quiz on their own, Ss are free to (and invited to) share ideas and strategies with neighbors while thinking.	Skills L S R W Key vocabulary (all vocabulary from the module) Communicative structures (all structures of the module)	 Whole class Group work Pair work Individual work 	 U4_L1_ALL1.docx U4_L1_ALL1.pdf U4_L1_ALL2.docx U4_L1_ALL2.pdf goo.gl/hGeRKi (online quiz on Kahoot.com to recap) U4_L1_ALL1 (Kahoot slide) U4_L1_ALL2 (Kahoot questions - paper version)	Formative: T elicits content.

Unit number

Lesson number

4

2 **Title**

Test and test correction

1 50 Recall all learnt concepts. Apply what learnt to familiar situations in order to solve problems which involve motion in general. Analyze unfamiliar situations to design solving strategies T hands out the tests and invites Ss to complete them on their own. Ss take the test. At the end of the lesson, T collects the answer sheets to assess them, whereas Ss keep the test sheet. Skills I whole class I whole class U4_L2_ALL1.dot Communicative structures I order to solve problems which involve motion in general. Analyze unfamiliar situations to design solving Skills I work I ndividual work U4_L2_ALL1.dot Structures Communicative structures of the module) Individual Work Individual V4_L2_ALL1.dot	at the end of the lesson, T collects the tests in order to assess them.

2	30	Compare results and analyze one's own mistakes.	T invites Ss to work in pairs to share results and strategies. Ss help each other understand what is still not clear.	Skills L S R W Key vocabulary (all vocabulary from the module) Communicative structures How did you solve? Why did you come to this solution? Could you tell me how?	 Whole class Group work Pair work Individual work 	• U4_L2_ALL1.docx • U4_L2_ALL1.pdf U4_L2_ALL1 (final test)	Peer: Ss compare respective results and correct one another. Formative: T analyzes Ss remaining doubts.
3	20	Compare results and analyze one's own mistakes.	T distributes the handouts containing the keys to the taken test and invites Ss to work in pairs to compare their results with the expected ones. Ss feel free to ask T for clarifications and further explanations. T circulates to clarify final doubts.	Skills L S R W Key vocabulary (all vocabulary from the module) Communicative structures Look at this solution Is my strategy equivalent to that?	 Whole class Group work Pair work Individual work 	 U4_L2_ALL1.docx U4_L2_ALL1.pdf U4_L2_ALL2.docx U4_L2_ALL2.pdf U4_L2_ALL1 (final test) U4_L2_ALL2 (keys to the final test) 	Peer: Ss compare respective results and correct one another. Formative: T analyzes Ss remaining doubts.