CLIL Module Plan

Author(s)	Angelo Danese								
School	IIS Martino Mar	IIS Martino Martini – Mezzolombardo (TN)							
School Grade	O Primary			O Middle			● Hig	● High	
School Year	01	0 2	2	• 3 O 4		04		05	
Subject	Fisica	Fisica Topic			Universal Gravitation				
CLIL Language	english				O Deutsch				

Personal and
social-cultural
preconditions
of all people
involvedThe class is made up of 20 students, 3 of which have a foreign family
background (Bulgaria, Moldavia, Poland) and none with special needs. It is a
lively and quite competitive group, with a vivacious intelligence, that needs to
be motivated and guided to perform at their best in the various activities.
Some might be not keen on novelties, but as a group they then embrace new
projects and are always driven to improve their competence. The average
CEFR level in English is a B2, although a couple of elements may still have
some difficulties. The class has already done a CLIL module in Physics during
the first year (10h on equilibrium, barycenter and levers) and have been doing
Art History entirely in English since year 2.

Students' prior	Subject	Language
skills, competencies	In L1: • Quantities and measurement; • Forces and equilibrium; • Kinematics in one dimension; • Kinematics in two dimensions; • Newton's three laws of motion; • Work and energy; • Fluids; • Impulse and momentum.	 Present simple; Present continuous; Present perfect; Present perfect continuous; Past simple; Past continuous; Past perfect; Past perfect continuous; Futures; Conditionals; Passive; reported speech; Modal verbs; Superlative and comparatives; Lexis and grammar expressing similarities and differences; To describe, compare and contrast ideas; To express opinions; To provide evidence; To support an argument; To take part in a discussion; Vocab and synonyms.

Timetable fit	Module	Length 10 lessons, 10 hours
Description of teaching and learning strategies	 Methodological application Learning) Choices during the lesson in activities connected input ICT learning Materials to suppor Differentiating mean Problem solving 	oproaches (for example Task-Based Learning, Cooperative s and strategies to promote interaction and communication hvolving students, teachers and group work • Learning d to expected learning outcomes • Content and language tools (for example PPT, Padlet) • Choice of media • t content and language scaffolding • Time managing • sures and additional forms of consolidation of outcomes •

Overall Module Plan

Unit: 1	Lesson 1					
Universal Gravitation	Geocentric and heliocentric models; Kepler's 1st, 2nd and 3rd law.					
Unit length: 10 h	Lesson 2					
	Newton's law of Gravitation; Derivation of Kepler's 3rd law.					
	Lesson 3					
	Cavendish's experiment; Weight and gravitational acceleration.					
	Lesson 4					
	Exercises and problems; Gravitational potential energy.					
	Lesson 5					
	Gravitational field; Exercises.					
	Lesson 6					
	The conservation of mechanical gravitational field; Orbit classification.					
	Lesson 7					
	Group work.					
	Lesson 8					
	Group work (conclusion); Oral presentations.					
	Lesson 9					
	Class test.					
	Lesson 10					
	Class test checking.					

Unit number	1	Lesson number	1	Title	Geocentric and heliocentric models; Kepler's 1st, 2nd and 3rd law.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
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1	10 min	 Be aware of the different models of planets rotation Know Kepler's three laws and be able to interpret them under mathematical aspects Teaching aims: • Presenting CLIL module to the class • Revising functional language to agree and disagree (previously seen by ss with the language T in preparation of the CLIL module) 	The T gives some general information about this CLIL module: Universal Gravitation and divides ss in group of 4 (according to the methods T prefers). In preparation of the following activities the T shares chunks of language to agree and disagree in a discussion: T gives a set of 28 cards stating useful language chunks; T asks ss in group to classify them according to meaning (to agree; to disagree; to close the discussion; to express one's opinion). When ss finish, T hands out the correction sheet	Skills L S R W Key vocabulary Communicative structures • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	 U1_L1_ALL1A.docx U1_L1_ALL1A.pdf U1_L1_ALL1B.docx U1_L1_ALL1B.pdf Ss gather information and notes provided. Padlet's web page: collection of all multimedia materials of the CLIL module.	T monitors and helps while ss do the activity
			the correction sheet for each group to check.				

2	5 min	Teaching aims: • Activating prior knowledge of the discipline • Developing communication skills • Developing cognitive skills	T projects slide number 1 of the PPT and hands out worksheets for the next activity; ss work in group (4 ss for each one) and discuss the question proposed by the T: "What is the difference between geocentric and heliocentric models?" After that the T will provide formal definitions using PPT slide 2.	Skills L S R W Key vocabulary • Specific vocabulary: geocentric and heliocentric models Communicative structures • Use of simple present • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	 U1_L1_ALL2.docx U1_L1_ALL2.pdf U1_L1_PPT.pdf U1_L1_PPT.ppt 	
3	13 min	Teaching aims: • Developing cognitive skills • Teaching the subject specific vocabulary: T asks ss to find key words in the text and their meanings to build a glossary	The T gives to the ss a puzzle-text. Ss work in group and discuss the correct order of the paragraphs provided. After, the T revises the exercise with the ss. The correction of this exercise will be focused on the chronological facts and on the specific	Skills L S R W Key vocabulary • Specific vocabulary and functional language identified in the text Communicative structures • Use of simple present • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	• U1_L1_ALL3.docx • U1_L1_ALL3.pdf U1_L1_ALL3 (From link)	

language used.

4	4 min	Teaching aims: • Developing cognitive skills • Developing interactive skills and cooperation with others	Matching activity: ss work in group and discuss the correct relation between the statement of Kepler's law and the pictures provided. T asks ss to use at least two chunks of functional language from U1 L1 ALL1B.	Skills L S R W Key vocabulary Key vocabulary • Specific vocabulary Specific vocabulary • Specific vocabulary Specific vocabulary • Specific vocabulary Specific vocabulary • Use of simple present W	 Whole class Group work Pair work Individual work 	• U1_L1_ALL4.docx • U1_L1_ALL4.pdf	
			from U1_L1_ALL1B.	and conditionals • Functional language: see U1_L1_ALL1B			

5	5 min	Teaching aims: • Teaching the subject specific vocabulary • Developing language skills and classifying	T gives feedback on the previous activity projecting PPT slides 3, 4, 5 and 6. Ss will hear the explanation on "Kepler's three laws" focusing also on the specific language.	Skills	Whole class	 U1_L1_PPT.pdf U1_L1_PPT.ppt
				L S R W Key vocabulary • Specific vocabulary: elliptical orbits, sweeps out, period, radius,	☐ Group work ☐ Pair work ☐ Individual work	
				focus Communicative structures • Use of simple present		

6	10 min	Teaching aims: • Teaching the subject specific vocabulary • Developing cognitive skills • Developing summarize skills	Reading comprehension and revision: ss will firstly read on their own, then in groups they will solve the exercises. T asks ss to use at least two chunks of functional language from U1_L1_ALL1B.	Skills L S R W Key vocabulary • Specific vocabulary • Specific vocabulary and functional language Communicative structures • Functional language: • see U1_L1_ALL1B •	 Whole class Group work Pair work Individual work 	 U1_L1_ALL5A.docx U1_L1_ALL5A.pdf U1_L1_ALL5A (Adapted from link) 	Ongoing assessment: T walks around and intervenes on possible doubts or imprecisions.
7	3 min	Teaching aims: • Feedback	T asks one ss per group to read out aloud the solutions of the previous exercise and corrects with the class, clarifying doubts.	Skills L S R W Key vocabulary • Specific vocabulary and functional language Communicative structures	 Whole class Group work Pair work Individual work 	• U1_L1_ALL5B.docx • U1_L1_ALL5B.pdf	

Unit number

Lesson number

1

2 Title

Newton's law of Gravitation; Derivation of Kepler's 3rd law.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	5 min	 Know Newton's law of Gravitation and be able to compute the quantities using also the reverse formulas • Be aware the procedure to derive Kepler's 3rd law from Newton's law of Gravitation Teaching aims: • Checking the learnings • Developing summarizing skills 	Revision: ss work in group (4 ss for each one) to complete the worksheet provided. The first activity is a T/F test and the second one consists in matching the questions with the correct answers. At the end of the activity one student per group stands up and rotates in a new group where they check if they have the same answers.	Skills L S R W Key vocabulary Key vocabulary Key vocabulary • Revision of terminology Communicative structures Structures • Functional language: See U1_L1_ALL1B See U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	 U1_L2_ALL1A.docx U1_L2_ALL1A.pdf U1_L2_ALL1B.docx U1_L2_ALL1B.pdf 	Ongoing assessment: T walks around and intervenes on possible doubts or imprecisions.

2 15 m	in Teaching aims: • Activating prior knowledge • Developing communication skills • Developing cognitive skills	T projects slide number 1 of the PPT with a list of scientists and data. Ss work in group and discuss about the correct order to build a timeline using the information provided and the inter-disciplinary connection with History and Philosophy. After that the T will provide the solution on the digital whiteboard.	Skills L S R W Key vocabulary Communicative structures • • Use of simple present • • Functional language: see U1_L1_ALL1B •	 Whole class Group work Pair work Individual work 	 U1_L2_ALL2A.docx U1_L2_ALL2A.pdf U1_L2_ALL2B.docx U1_L2_ALL2B.pdf U1_L2_PPT.pdf U1_L2_PPT.ppt 	

3	15 min	Teaching aims: • Teaching the subject specific vocabulary: T asks ss to find key words in the text and their meanings to build a glossary • Developing cognitive skills	Ss will firstly read on their own the document provided (scan from English for Science, Martellotta, Rizzo, ed. Zanichelli), then in group they will discuss about the question and the picture provided. After, the T explains the statement of the law of Universal Gravitation projecting PPT slides 2, 3 and 4.	SkillsLSRWKey vocabulary• Specific vocabularyand functional languageidentified in the textCommunicativestructures• Use of simple present• HW: has/has not;same/opposite;first/third; some/any;smaller/greater;four/two;increases/decreases.	 Whole class Group work Pair work Individual work 	 U1_L2_ALL3.docx U1_L2_ALL3.pdf U1_L2_PPT.pdf U1_L2_PPT.ppt U1_L2_ALL3 (scan from English for Science, Martellotta, Rizzo, ed. Zanichelli) 	

4	15 min	Teaching aims: • Developing cognitive skills • Developing interactive skills and cooperation with others	Language practice: T gives to the ss a puzzle text. Ss in group discuss the correct steps to derive the Kepler's 3rd law from Newton's law of Gravitation. After, the T revises the exercise with the ss focusing on the logical steps to demonstrate the derivation of Kepler's 3rd law, projecting PPT slide 5. T asks ss to use at least two chunks of functional language from U1_L1_ALL1B.	Skills L S R W Key vocabulary • Specific vocabulary • Specific vocabulary and functional language Communicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	<pre>• U1_L2_ALL4.docx • U1_L2_ALL4.pdf • U1_L2_PPT.pdf • U1_L2_PPT.ppt U1_L2_PPT</pre>	Ongoing assessment: T walks around and intervenes on possible doubts or imprecisions.
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Unit number

Lesson number

1

Title

3

Cavendish's experiment; Weight and gravitational acceleration.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10 min	• Be aware of the procedure used by Cavendish to compute the universal gravitational constant • Know the difference between mass and weight Teaching aims: • Checking the learnings • Developing summarizing skills	Revision: T asks one group of ss to come to the digital whiteboard to explain the results demonstrated during the previous lesson, projecting PPT slide 1. A second group comes out to check the homework; the solution of this exercise is on PPT slide 2.	Skills L S R W Key vocabulary Key vocabulary • All the specific vocabulary and functional language previously learned Structures Communicative structures • Use of simple present and past	 Whole class Group work Pair work Individual work 	• U1_L3_PPT.ppt • U1_L3_PPT.ppt	Formative assessment: T takes notes on difficulties or doubts and gives feedback.

2	5 min	Teaching aims: • Activating prior knowledge • Developing communication skills •	T projecting PPT slide 3 to recall the value of universal gravitational constant G; after, using PPT slide 4, ss	Skills L S R W Key vocabulary	 Whole class Group work Pair work Individual 	• U1_L3_PPT.pdf • U1_L3_PPT.ppt	
		Developing cognitive skills: inferring	work in group to hypothesize the process of the Cavendish's torsion balance to calculate the constant G. T asks ss to use at least two chunks of functional language from U1_L1_ALL1B.	Communicative structures • Use of simple present • Functional language: see U1_L1_ALL1B	work		

3	15 min	Teaching aims: • Teaching the subject specific vocabulary: T asks ss to find key words in the text and their meanings to build a glossary • Developing	Language practice: ss in group will complete the text provided using the keywords in the box on the smartboard (PPT slide 5). After T asks one student per group to check the exercise.	Skills L S R W Key vocabulary Key vocabulary: V • Specific vocabulary: Specific vocabulary: Specific vocabulary: • Specific vocabul	 Whole class Group work Pair work Individual work 	 U1_L3_ALL1A.docx U1_L3_ALL1A.pdf U1_L3_ALL1B.docx U1_L3_ALL1B.pdf U1_L3_PPT.pdf U1_L3_PPT.ppt U1_L3_ALL1A (Adapted from link) 	Ongoing assessment: T walks around and intervenes on possible doubts or imprecisions.
		cognitive skills • Developing interactive skills and cooperation with others		Communicative structures • Use of simple present • Functional language: see U1_L1_ALL1B			

4	15 min	Teaching aims: • Developing cognitive skills • Developing listening skills	Listening activity: for gist the T asks ss which object is nominated several times in the audio and plays the	Skills L S R W Key vocabulary	 Whole class Group work Pair work Individual 	 U1_L3_ALL3.docx U1_L3_ALL3.pdf U1_L3_PPT.pdf U1_L3_PPT.ppt U1_L3_ALL2.zip U1_L3_ALL2 (from 	
			Then T gives to the ss some questions about Gravitation (projecting PPT slide 6) and plays the recording again. Ss will answer the questions using the information contained in the audio file provided. After, the T gives to the ss the text of file audio to check the answers and eventually correct them.	Communicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B	work	Phoenomena LS1, Fabbri, Masini, ed. Sei) U1_L3_ALL3 (scan from Phoenomena LS1, Fabbri, Masini, ed. Sei)	

5	5 min	Teaching aims: • Feedback	T asks one student per group to discuss with the rest of the class about the results demonstrated during the lesson, looking PPT slide 7.	Skills L S R W Key vocabulary • Specific vocabulary: magnitude of the gravitational force, weight, newton, acceleration of gravity, mass and radius of the Earth.	 Whole class Group work Pair work Individual work 	• U1_L3_PPT.pdf • U1_L3_PPT.ppt	
				Communicative structures • Use of simple present and past			

Unit number

Lesson number

1

4 Title

Exercises and problems; Gravitational potential energy.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	30 min	 Be aware of the procedure to compute in different ways the quantities studied in the previous lessons • Know the meaning of gravitational potential energy Teaching aims: • Learning specific vocabulary • Developing cognitive skills 	Exercises and problems: ss in group (4 ss for each one) will solve the exercises with the support of the T. After, the T asks one member of each group to come to the digital whiteboard to check the exercises (using PPT slides 1 and 2). In the meantime, T revises the exercises with the ss focusing on the specific language and vocabulary	SkillsLSRWKey vocabulary • All the specific vocabulary and functional language previously learnedCommunicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	 U1_L4_ALL1A.docx U1_L4_ALL1A.pdf U1_L4_ALL1B.docx U1_L4_ALL1B.pdf U1_L4_PPT.pdf U1_L4_PPT.ppt Calculator	Formative assessment: T takes notes on difficulties or doubts and gives feedback.

2	3 min	Teaching aims: • Activating prior knowledge • Developing communication skills • Developing cognitive skills	T projecting PPT slide 3: ss work in group (4 ss for each one) and discuss, using the Physics concept studied in L1, the question proposed by the T: "What is	Skills L S R W Key vocabulary • No focus on specific terminology that will be introduced in the next activity	 Whole class Group work Pair work Individual work 	 U1_L4_PPT.pdf U1_L4_PPT.ppt
		the gravitational potential energy?" T asks ss to use at least two chunks of functional language from U1_L1_ALL1B.	Communicative structures • Use of simple present • Functional language: see U1_L1_ALL1B			

3	3 14 min	Teaching aims: •Language practice:Teaching theT gives to the ss asubject specificpuzzle-text. Ssvocabulary: Twork in group andasks ss to finddiscuss the correctkey words in theorder of thetext and theirparagraphsmeanings to buildprovided. When alla glossary •the groups have	Skills L S R W Key vocabulary • Specific vocabulary and functional language identified in the text	 Whole class Group work Pair work Individual work U1_L4_ALL2.docx U1_L4_ALL2.pdf U1_L4_ALL2 (Adapted from link) 		
		a glossary • Developing cognitive skills • Developing interactive skills and cooperation with others	the groups have finished T provides them the complete text.	Communicative structures • Use of simple present • Functional language: see U1_L1_ALL1B		

4	3 min	Teaching aims: •	T revises the	Skills	Whole	• U1_L4_PPT.pdf	
		Teeuback	focusing on the	L S R W	Group	• OI_L4_IT I.ppt	
			of gravitational potential energy,	Key vocabularySpecific vocabulary	□ Pair work		
			using PPT slide 4.	and functional language	work		
				structures			

Unit number

Lesson number

1

5 **Title**

Gravitational field; Exercises.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	18 min	 Know the meaning of gravitational field Be aware of the difference between gravitational energy and gravitational field • Be aware of and learn the procedure to compute in different ways the quantities studied in the previous lessons • Revise and re- elaborate the concepts and vocab seen Teaching aims: Checking the learnings • Developing summarizing skills 	Homework checking and revision: ss discuss with the T about the results demonstrated during the lesson and checking the problems given for homework. If this correction activity takes less time, T can give extra problems to solve.	Skills L S R W Key vocabulary Communicative structures • Use of simple present and past	 Whole class Group work Pair work Individual work 	 U1_L4_ALL1B.docx U1_L4_ALL1B.pdf U1_L5_ALL1A.docx U1_L5_ALL1A.pdf U1_L5_ALL1B.docx U1_L5_ALL1B.pdf Blackboard 	Formative assessment: T takes notes on difficulties or doubts and gives feedback.

2	13 min	Teaching aims: • Developing cognitive skills • Developing interactive skills and cooperation with others	Language practice: ss in group (4 ss for each one) will complete the text using the keywords in the box on the smartboard. T asks ss to use at least two chunks of functional language from U1_L1_ALL1B.	Skills L S R W Key vocabulary • Specific vocabulary: around, attraction, weaker, region, 9.81 newtons per kilogram, 9.81 meters per second2 Communicative	 Whole class Group work Pair work Individual work 	 • U1_L5_ALL2A.docx • U1_L5_ALL2A.pdf • U1_L5_ALL2B.docx • U1_L5_ALL2B.docx • U1_L5_ALL2B.pdf • U1_L5_PPT.pdf • U1_L5_PPT.ppt U1_L5_ALL2A (Adapted from Complete Physics for Cambridge IGCSE®, S. Pople. Oxford) 	Ongoing assessment: T walks around and intervenes on possible doubts or imprecisions.
				• Focus on the difference between weight(n.) and weigh(v.) • Use of simple present • Functional language: see U1_L1_ALL1B			
3	4 min	Teaching aims: • Developing cognitive skills • Developing	Terminology practice (matching activity): ss work	Skills L S R W	Whole class Group work	 U1_L5_ALL3A.docx U1_L5_ALL3A.pdf U1_L5_ALL3B.docx U1_L5_ALL3B.pdf 	
		interactive skills and cooperation with others	in group and discuss the correct relation	Revision of quantities	□ Paır work □ Individual work		

structures

• Use of simple present

• Functional language:

see U1_L1_ALL1B

data and the

pictures

provided.

4	15 min	Teaching aims: • Learning specific vocabulary • Developing cognitive skills • Feedback	Exercises: ss will solve the exercises with the support of the T.	Skills L S R W Key vocabulary Key vocabulary W · All the specific vocabulary and functional language previously learned Structures Structures · Use of simple present and conditionals · Functional language: see U1_L1_ALL1B Structures Structures	 Whole class Group work Pair work Individual work 	• U1_L5_ALL4.docx • U1_L5_ALL4.pdf Calculator	Formative assessment: T takes notes on difficulties or doubts and gives feedback.
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Unit number

1

Lesson number

6

Title

The conservation of mechanical gravitational field; Orbit classification.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	5 min	 Know the law of energy conservation • Be aware of the different orbits of a planet around the Sun • Know the mathematical condition to have every orbit's type Teaching aims: • Activating prior knowledge • Developing communication skills • Developing cognitive skills 	T shows the picture used in lesson 4 (using PPT slide 1). Individually each student finds the two mistakes in the picture. After, in group (4 ss for each one) they discuss, using the Physics concept studied in L1, the new question proposed by the T: "Do you remember the conservation of mechanical energy?"	Skills L S R W Key vocabulary Communicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	• U1_L6_PPT.ppt • U1_L6_PPT.ppt	Formative assessment: T takes notes on difficulties or doubts and gives feedback.

2	15 min	Teaching aims: •	Language	Skills	□ Whole	• U1_L6_ALL1A.docx	Ongoing
		Learning specific vocabulary •	group will	L S R W	Class Group	• U1_L6_ALL1A.pdf • U1_L6_ALL1B.docx	assessment: T walks
		Developing cognitive skills • Developing interactive skills and cooperation with others	complete the text using the keywords in the box on the smartboard (T projecting PPT slide 2). T asks ss to use at least two chunks of functional language from U1_L1_ALL1B.	Key vocabulary • Specific vocabulary: potential and kinetic energy, mechanical energy, system, conservative force	work Pair work Individual work	• U1_L6_PPT.pdf • U1_L6_PPT.ppt U1_L6_ALL1A (Adapted from link)	around and intervenes on possible doubts or imprecisions.
				Communicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B			
2	10 min	Toaching aims:	T olicits the	Skille		a 111 16 PPT pdf	
5	10 11111	Learning specific	formula of		class	• U1_L6_PPT.ppt	
		Developing	mechanical energy		work		
		language skills	that ss have previously discussed in group and writes on the board. T then goes back to the PPT slide 3. Explaining: ss will listen to the explanation focusing also on the specific language.	 Key vocabulary Specific vocabulary and functional language 	□ Pair work □ Individual work		
				Communicative structures	WULK		

4 5	5 min	Teaching aims: • Developing cognitive skills • Developing interactive skills and cooperation with others	Matching activity: ss work in group and discuss (using the Maths concept studied in L1) the correct relation between the statement that describes the orbit and the pictures provided. After the T shows the solution on the whiteboard using PPT slide 4.	Skills L S R W Key vocabulary • Specific vocabulary: bounded elliptic, unbounded parabolic, unbounded hyperbolic	 Whole class Group work Pair work Individual work 	ole U1_L6_ALL2.docx ss U1_L6_ALL2.pdf U1_L6_PPT.pdf rk U1_L6_PPT.ppt r work ividual rk	
				Communicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B			
5	15 min	Teaching aims: •	Exercises: ss in	Skills	□ Whole	• U1_L6_ALL3.docx	Ongoing
		Learning specific vocabulary •	group will solve the exercises (project on the smartboard, PPT slides 5 and 6) with the support of the T.	L S R W	Group ■ Group work □ Pair work □ Individual	 U1_L6_ALL3.pdf U1_L6_PPT.pdf U1_L6_PPT.ppt Calculator 	assessment: T walks around and intervenes on possible
		cognitive skills • Feedback		Key vocabulary			
				Communicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B	work		doubts or imprecisions.

Unit number

Lesson number

1

7

Title

Group work.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	• Know the concept studied in all the module Teaching aims: • Developing summarize skills	Ss work in group (4 ss for each one) to create posters about Universal Gravitation. In particular, T gives out one of the following topics to each group: 1. Kepler's three laws; 2. Newton's law of Gravitation; 3. Mass and weight; 4. Gravitational potential energy; 5. Orbit classification.	Skills L S R W Key vocabulary Communicative structures • Use of present, past and conditional tenses • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	Posters	T walks around the class and monitors the activity. T takes notes about items that need clarifications.

Unit number

Lesson number

1

8 Title

Group work (conclusion); Oral presentations.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	20 min	• Be aware of the contents studied in all the module and be able to explain at least three topics about Universal Gravitation Teaching aims: • Developing summarize skills	Ss work in group to complete posters about Universal Gravitation started in the previous lesson.	Skills L S R W Key vocabulary Communicative structures • Use of simple present and conditionals • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	Posters	T walks around the class and monitors the activity. T takes notes about items that need clarifications.

2	25 min	Teaching aims: • Developing communication skills • Developing cognitive skills	Ss in group will explain their group work realized. T underlines that this activity is the final revision before the class test. At the end	Skills L S R W Key vocabulary • Specific vocabulary and functional language	 Whole class Group work Pair work Individual work 	 □ Whole □ Class □ Group □ U1_L8_AL □	 U1_L8_ALL1.jpg U1_L8_ALL2.jpg U1_L8_ALL3.jpg U1_L8_ALL4.jpg U1_L8_ALL5.jpg Group presentation - 	Formative assessment (see Teacher Rubric for Group Work). When each group
			group will put the photo of their poster on padlet.	Communicative structures		Rubric.docx • Group presentation - Peer Marking Rubric.pdf • Teacher Rubric for Group Work.docx • Teacher Rubric for Group Work.pdf Posters (see examples of posters attached: U1_L8_ALL1 U1_L8_ALL2 U1_L8_ALL3 U1_L8_ALL4 U1_L8_ALL4 U1_L8_ALL5) Padlet (www.padlet.com)	their work other ss fill in the peer evaluation grid (see Group presentation - Peer Marking Rubric).	

3	5 min	Teaching aims: • Feedback	T recalls those concepts that have been confused and inaccurate during the oral presentations.	Skills	Whole class		
				Key vocabulary • Specific vocabulary and functional language	□ Group work □ Pair work □ Individual work	ork air work dividual ork	
				Communicative structures			

Unit number

1

Class test.

Title

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	 Know the concept studied in all the module • Be aware of the different procedures to compute the quantities studied in all the module Teaching aims: • Checking the learnings 	Ss work individually to solve the exercises and the problems provided by the T.	Skills L S R W Key vocabulary • Specific vocabulary and functional language Communicative structures	 Whole class Group work Pair work Individual work 	 U1_L9_ALL1.docx U1_L9_ALL1.pdf U1_L10_ALL1.docx U1_L10_ALL1.pdf Foolscaps Calculator 	Summative assessment (see Keys and Evaluation grid)

Lesson number

9

Unit number

Lesson number

1

10 **Title**

Class test checking.

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	• Be aware of the mistakes and inaccuracies made during the class test Teaching aims: • Checking the learnings	Ss check the class test with the T, pining up some information on their exercise book.	Skills L S R W Key vocabulary • Specific vocabulary • Specific vocabulary and functional language Communicative structures • Use of simple present and past • Functional language: see U1_L1_ALL1B	 Whole class Group work Pair work Individual work 	• U1_L10_ALL1.docx • U1_L10_ALL1.pdf Blackboard	