CLIL Module Plan

Author(s)	Manuela Pedrazzi								
School	Liceo B. Russe	Liceo B. Russell							
School Grade	O Primary	O Primary				• High			
School Year	01	O 2	O 3		• 4		0 5		
Subject	Biologia	Biologia		Topic		Anatomy			
CLIL Language	English	English			ch				

Personal and social-cultural preconditions of all people involved

The class has 19 students (2 males and 17 females). One student joined the class last year from "Classico" course. All students were born in Italy, but for two of them the mother tongue is not Italian. One is German and the other one is Indian. They have been doing Science in English since the first year of high school, and particularly in CLIL since last year. The class is slightly restless, but they appreciate CLIL methodology, since they prefer doing and thinking than just listening to the teacher. The English level of the class is upper B2, in many cases C1. The average level of the class in this subject is good. In the class there is a LIM, and they can use their mobile if needed or ICT lab. Some activities were carried out in science laboratory. The teacher has a Biology degree and she has been teaching them Science in English using CLIL methodology since last year.

Language

Students' prior
knowledge,
skills,
competencies

Their previous knowledge are based on cells, microscope, genetics, some scientific terminology in biology. Anyway the first unit of this module deals with a general review of these topics. They have already been acquainted with the CLIL

methodology, thus they know how

to cope with the activities.

Subject

WH questions; If clauses type 1,2,and 3; Phrasal verbs; Making hypothesis; Draw conclusion; Passive form; Comparing and contrasting; Relative sub-clauses;

All basic tenses; Connectors.

Timetable fit	Module	Length 18 hours

Description of teaching and learning strategies

The whole module is structured on task-based activities, starting from simple exercises to verify understanding to problem solving situations. Almost all class activities are organized according to cooperative learning methodology, either in pairs or the whole class. To stimulate their interest in the subject, participation in class work and acceptation of challenges in some activity in class and labs they are evaluated as individuals, pairs or group. You tube videos, ppt have been used together with laboratory experiments and reading comprehension activity.

Overall Module Plan

Unit: 1

Introduction to tissues

Unit length: 4h (1 h per lesson)

Lesson 1

Eukaryote cells and levels of cellular organization

Lesson 2

Structural organization of human body

Lesson 3

Microscope

Lesson 4

Test

Unit: 2

Tissues

Unit length: 14 (1h per lesson)

Lesson 1

Epithelial Tissue (Part 1)

Lesson 2

Epithelial Tissue (Part 2)

Lesson 3

Nervous tissue

Lesson 4

Brain

Lesson 5

Oral presentation on nervous system (part 1)

Lesson 6

Oral presentation on nervous system (part 2)

Lesson 7

Muscle tissue (Part 1)

Lesson 8

Muscle tissue (Part 2)

Lesson 9

Connective tissue
Lesson 10
Bone
Lesson 11
Blood (Part 1)
Lesson 12
Blood type (Part 2)
Lesson 13
General Review before the Final Test
Lesson 14
Final Test

Unit number	1	Lesson number	1	Title	Eukaryote cells and levels of cellular organization
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1 30 min Students (Ss) will be Teacher (T) explains **Skills** ☐ Whole • Unit 1-They discuss able to: - distinguish the tasks, circulates and class the answers Lesson S differences and monitors, corrects if L R W ☐ Group 1 in pairs similarities between a necessary Ss read the work Key.pdf Plenary **Key vocabulary** prokaryotic and a text and list the ■ Pair work • Unit 1correction of Eukaryotes prokaryote scientific words (Step 1) eukaryotic cell (Step 1) -Lesson tasks ☐ Individual mitochondrion rough identify the different Ss solve the crossword 1.pdf work endoplasmic reticulum types of organelles in using the scientific Lesson 1lysosome cytoskeleton eukaryotic cells by their terms found in the text Unit 1 centrioles nucleolus structural features and (Step 2) Ss label the Activity 1: golgi apparatus smooth their functions (Step 1image by using the Cell (step 1endoplasmic reticulum 2-3) - apply their words given (Step 3) Ss 2-3) Handout nucleus ribosome understanding by can discuss their containing labelling the cell image answers in pairs and reading text, Communicative (Step 3) plenary crossword to structures be filled in What do you think and labelling about? Can you identify a drawing the different part of the cells? Can you explain the function of...? Can you discriminate between prokaryote and eukaryote cell?

2	10 min Ss will be able to - Identify and comprehend the level o structural organization in the human body	T explains task, circulates and monitors, corrects if necessary Ss match the words given with the drawing Ss sort the drawings by size	Skills L S R W Key vocabulary Atom molecule organ tissue cell organism organ system macromolecule	□ Whole class □ Group work ■ Pair work □ Individual work	 Unit 1- Lesson 1 Key.pdf Unit 1- Lesson 1.pdf Lesson 1- Unit 1 	Ss discuss the answers in pairs Plenary correction of task; discussion monitored	
				Communicative structures Using comparative and superlative structures and giving explanation The smallest the biggest because I agree/disagree What does it look like?		Activity 2: Levels of organization in human body Handout with identify and classify drawings	

3	10 min	Ss will be able to - assess their understanding of basic scientific terms and functions.	T enquires about students' understanding of task given. Ss match scientific terms with their definitions	Skills L S R W Key vocabulary review of key vocabularies of activity 1 and 2	□ Whole class □ Group work ■ Pair work ■ Individual work	 Unit 1- Lesson 1 Key.pdf Unit 1- Lesson 1.pdf 	Ss match words and definitions individually; they discuss their answers in pairs. Answers are
				Communicative structures What do you think about In my opinion I agree/disagree I suppose this means		Unit 1 Activity 3: Peer/self - assessment Handout	discussed in plenary with a focus on distractors (if they were chosen). Ss can also explain why the distractors are wrong. This is a training activity to make Ss realize the importance of analyzing, distinguishing and inferring in a scientific text.

Unit number 1 Lesson number 2 Title Structural organization of human body

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	15 min	Ss will be able to: - identify the different types of body systems (step 1-2) - distinguish the different functions of each body system (step 1-2)	T explains task, circulates and monitors, corrects if necessary Ss read the text and list the unknown words Ss match the words with their functions Ss discuss their answers in pairs and plenary	Key vocabulary Endocrine Skeletal Immune Muscular Digestive Respiratory Reproductive Lymphatic Nervous Circulatory Integumentary Urinary Communicative structures Asking WH questions Making hypothesis	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 1- Lesson 2 Key.pdf • Unit 1- Lesson 2.pdf Lesson 1- Unit 2 Activity 1: Body system (step 1-2) Handout with the text, and the exercise	Ss discuss the answers in pairs Plenary correction of tasks

	2	10 min		(learned in activity 1) with	Communicative structures Giving reasons for their choices (In my opinion matches with because) Why did you choose that instead of? Does this drawing	■ Pair work ■ Individual	• Unit 1- Lesson 2.pdf Unit 1- Lesson 2 Activity 2: Human body system drawings Handout with	discussion	
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3	15 min	Ss will be able to: - recognize and recall targeted content	T explains task, circulates and monitors, corrects if necessary Ss solve the word puzzle	Key vocabulary Bone Artery Lymphatic vessel Bone marrow Bladder Skin Esophagus Mouth Ureter Testicle Vagina Scrotum Brain Thymus Pituitary Spinal cord Communicative structures Can you find this term in the puzzle How many words have we found yet? How many words do we still have to find?	□ Whole class □ Group work ■ Pair work □ Individual work	• Unit 1- Lesson 2 Key.pdf • Unit 1- Lesson 2.pdf Unit 1- Lesson 2- Activity 3: Organs Handout with word puzzle	Ss discuss the answers in pairs Plenary correction of task;
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4 10 min Ss will be able to: T explains task, circulates Skills ☐ Whole • Unit 1-Ss write the - apply their and monitors, corrects if class Lesson correct words; S R learned necessary Ss write the W ☐ Group 2 they discuss information to names of three organs for work Key.pdf their answers **Key vocabulary** each body system (two of combine each ■ Pair work • Unit 1in pairs. Review and them have been learned in body system with Lesson Answers are ☐ Individual consolidation of key the previous activity and the the corresponding 2.pdf then discussed work vocabularies learned third should be guessed) in plenary. Ss organs Unit 1through activity 2 and 3 evaluate their Lesson 2 ability of Activity 4: **Communicative** working Peerstructures together, Do you know some assessment listening to Handout organs for this body other people's with the system? Have you got opinions and exercise any ideas? Should this expressing organ partake of this their own. system?

 Unit number
 1
 Lesson number
 3
 Title
 Microscope

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10 min	Ss will be able to: - Consider the importance of the microscope in scientific field - Distinguish the different types of microscopes and their uses	T explains task, circulates and monitors, corrects if necessary Ss read the text and answer the questions Ss discuss their answers in pairs and plenary	Key vocabulary Light microscope Electron microscope Microscopic scale Communicative structures What is the main difference In my opinion Agree/disagree What does this diagram show? What is the size of a cell?	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 1- Lesson 3 Key.pdf • Unit 1- Lesson 3.pdf Lesson 1- Unit 3 Activity 1: Overview of microscope Handout with the text and diagram	Ss discuss the answers in pairs Plenary correction of task

2 20 min Ss will be able to T explains task T explains the **Skills** ☐ Whole • Unit 1-Ss discuss - show their parts of the microscope Ss class Lesson the answers S R ability in note take notes (Step 1) Ss check W ☐ Group 3 in pairs taking (Step 1) the spelling of the techincal work Key.pdf Plenary **Key vocabulary** terms before doing the Identify and Pair work • Unit 1correction of Stage Coarse comprehend the matching (Step 1) Ss match Lesson task: Individual adjustment knob Fine the parts of the microscope parts of a light 3.pdf discussion work adjustment knob Cover with their functions and/or monitored microscope (Step Unit 1slip Nosepiece Stage description (Step 2) 2) Lesson 3 controls Arm Stage clips Activity 2: Light Communicative microscope structures Handout with Can you repeat, please? matching What is the correct spelling of this word..? Can you explain again? Do you think that is this one is the correct match for that term? Do you agree with me? What do you think about..?

3	20 min	Ss will be able to: - practise how to use a microscope - understand the function of all its parts by doing	T explains task, circulates and monitors, corrects if necessary Ss use the microscope to observe plant cells by following the instruction and their own notes	Key vocabulary Review of key vocabularies of activity 2 Communicative structures Can you help me? Can you explain me how it works? What would happen if	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 1- Lesson 3 Key.pdf • Unit 1- Lesson 3.pdf Unit 1- Lesson 3 Activity 3: Students in action Ss use the handout of activity 2 and their notes Ss use the handout with the instruction of using microscope	Ss are evaluated according to their behaviour and their correct use of the microscope, by using the handout grid
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Unit number	1	Lesson number	4	Title	Test
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Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Ss will be able to prove their knowledge and understanding of Unit 1 (Introduction to tissue) create a brief text organizing the data they have studied	T explains the tasks, monitors their work Ss have to fill in a crossword Ss have to do the True and False exercise, and correct the false statements Ss have to do a multiple choice text Ss have to answer three open questions	Key vocabulary Review of all unit 1 Communicative structures The test doesn't have any communicative task	□ Whole class □ Group work □ Pair work ■ Individual work	• Unit 1- Lesson 4- Key.pdf • Unit 1- Lesson 4.pdf Unit 1- Lesson 4 Activity 1: Test Handout with the test	Each test will be evaluated according to the grid provided.

 Unit number
 2
 Lesson number
 1
 Title
 Epithelial Tissue (Part 1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	Ss will be able: - recall the previous scientific terms connected with microscope parts.	recall the previous scientific terms connected with	T explains the task Each ss complete the fill in acitivity	Skills L S R W Key vocabulary Stage Coarse adjustment knob Fine adjustment knob Cover slip Nosepiece Stage controls Arm Stage clips	□ Whole class □ Group work □ Pair work ■ Individual work	 Unit 2- Lesson 1 key.pdf Unit 2- Lesson 1.pdf Unit 2- Lesson 1 Activity 1: 	Ss are evaluated by using the grid present on the sheet
			Communicative structures Since it is a writing assessment they have to do it on their own.		Assessment Handout with microscope image		

2	15 min	Ss will be able to: - identify different types of epithelial tissue - match the type of tissue slide with the image shown on the handout	T explains the task and monitores the ways students use the microscope Ss observe the different slides on the microscope, recognize and match each peculiar tissue to its image	Key vocabulary No new words, because it is a practical activity Communicative structures How do I recognize it? I don't see any differences Both images look the same to me. Do you think that this slide represents image letter? Do you agree/disagree? Why is it wrong?	■ Whole class □ Group work □ Pair work ■ Individual work	• Unit 2- Lesson 1 key.pdf • Unit 2- Lesson 1.pdf Unit 2- Lesson 1 Activity 2: Observation epithelial tissues Handout with epithelial images	Ss share and check their own anwers with the whole class and motivate their choices T gives the correct answer
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3	25 min	Ss will be able to: - identify the different types of epithelial tissues, considering the shape and layers; - classify them - memorize the new terms	T explains the task Ss have to read the text, recognize the tissues and write the answer in the grid	Key vocabulary Squamous Columnar Cuboidal Stratified Pseudostratified Simple Cornified Communicative structures Can you make distinction between Can you identify the different parts What inference can you make? How would you classify this? Can you justify your choice?	 ■ Whole class □ Group work ■ Pair work □ Individual work 	• Unit 2- Lesson 1 key.pdf • Unit 2- Lesson 1.pdf Unit 2- Lesson 1 Activity 3: Tissue classification Handout with the text and grid	Ss share and check their own anwers with the whole class and motivate their choices T gives the correct answers and explains the reason
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Unit number 2 Lesson number 2 Title Epithelial Tissue (Part 2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	20 min	Step 1 Ss will be able to: -identify and distinguish the different types of epithelial tissue and their cells - illustrate the different functions of the epithelium Step 2 Ss will be able to: - recognize the different cells - explain the differences between the cells	T gives information about the tasks, and make them watch the video. T observes and controls the whole class while they are doing the activity Ss will watch the youtube video about the classification of epithelial tissue (types of cells; types of epithelium and functions): link Ss will answer the questions individually and then in pairs Ss will label the different types of cells shown in the handout and then justify their choices with the partner	Key vocabulary Simple squamous, simple cuboidal, simple columnar, pseudostratified columnar, stratified squamous, stratified cuboidal, stratified columnar, transitional selective absorption; secretion; protection; sensing	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 2- Lesson 2 key.pdf • Unit 2- Lesson 2.pdf Unit 2- Lesson 2 Activity 1: Brainstorming and further development Handout with the link of the video and the cells image	Peer assessment; plenary correction of task

Communicative
structures
Can you identify the
different cells? Can you
select? Can you make
a distinction between?
How do you classify
these types of cells?
Which is the best
answer?
Agree/Disagree In my
opinion What structure
would you select to
show Based on what
you know, how would
you explain? How
would you prove?

2	abl and diff the the fun skii hor	Step 1 Ss will be able to: -identify and distinguish the different layers of the skin - illustrate the different functions of the skin - explain what homeostasis is Step 2 Ss will be able to: - recognize the different strata of the skin - identify the different elements in each layer	T gives information about the tasks, and make them watch the video. T observes and controls the whole class while they are doing the activity Ss will watch the youtube video about the skin (layers; cells and functions): link Ss will answer the questions individually and then in pairs Ss will label the different types of layers and components shown in the image with the proper term	Key vocabulary Epidermis Keratinocytes Melanocyte Dermis connective tissue sweat glands Hypodermic	□ Whole class □ Group work ■ Pair work ■ Individual work	 Unit 2- Lesson 2 key.pdf Unit 2- Lesson 2.pdf Unit 2-Lesson 2 Activity 2: 	Peer assessment; Plenary correction of task
				Communicative structures What is your opinion of? What choice would you make? What would you select? What is the function of the skin?		Skin Handout with the link of the video and the image of the skin	

Unit number2Lesson number3TitleNervous tissue

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	15 min	Step 1 Ss will be able to: - reorder paragraphs logically - demostrate basic understanding of facts Step 2 Ss will be able to: - show basic understanding of the text - infer the meaning by looking at the figure	T explains the tasks and checks their correct execution of the tasks Ss have to read the paragraphs and put them in order (Step 1) Ss have to answer the questions either by reading the right sequence of paragraphs or looking at the figure (Step 2)	Key vocabulary Central nervous system Peripheral nervous system Stimulus Sense organs Nerve impulses Communicative structures What facts would you select to show? How would you organize paragraphs? Which terms can we use to explain the image? What is the meaning of this word? Why is this sequence wrong?	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 2- Lesson 3- Key.pdf • Unit 2- Lesson 3.pdf Unit 2- Lesson 3 Activity 1: introduction to nervous system Handout with one text divided into 4 paragraphs and questions with image	Ongoing assessment at the of the unit. Each answer will be checked with the whole class.

2	25 min	Ss will be able to: - comprehend the scientific text proposed by answering the questions related to it	T gives the handout to the students listens to them asking each other questions Ss have to read the text giving the answers orally and writing them down	L S R W Key vocabulary Peripheral system neurons autonomic cell body dendrites axon efferent neurons afferent neurons myelin sensory neurons interneurons motor neuron	□ Whole class □ Group work ■ Pair work □ Individual work	• Unit 2- Lesson 3- Key.pdf • Unit 2- Lesson 3.pdf Unit 2- Lesson 3 Activity 2: nervous system Handout with the scientific text (Book: Structure and function of the body (Thibodeau- Patton, 14th Edition- Elsevier))and questions	Ongoing assessment at the end of the unit. Each answer will be checked with the whole class and discussed
				Communicative structures What does this word mean? Can you explain this part? Can you summarize the text? Can you outline the main part of? Can you report the main information you have gathered to me orally?			

3	10 min	Ss will be able to: - interpret the image and infer the right meaning and functions of the terms given	T explains the task Ss have to match the correct statement (by looking at the image) with the two constrasting definitions	Key vocabulary Parasympathetic Sympathetic Communicative structures What does this statement refer to? Is this another meaning of this word? Do you think this is right? What would you select? What is your opinion of?	 ■ Whole class □ Group work ■ Pair work □ Individual work 	• Unit 2- Lesson 3- Key.pdf • Unit 2- Lesson 3.pdf Unit 2- Lesson 3 Activity 3: Autonomic nervous system Handout with the image and the exercise	Each pair gives their answers. T writes them on the board. The results will be interpreted and discussed with the whole class.
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Unit number 2 Lesson number 4 Title Brain

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	25 min	Ss will be able to: - identify the different	T explains the task. Uploads the video and	Skills	□ Whole class	• Unit 2- Lesson	Ongoing assessment
		parts of the brain -	checks out how they	L S R W	□ Group	4-	The teacher
		match each part with its proper function another Ss watch the video Ss individually label the image Ss in pairs fill in the grid	Key vocabulary Frontal lobe Temporal lobe Cerebellum Cerebrum Occipital lobe Parietal lobe	■ Pair work ■ Individual work ■ Unit 2-		checks answers with the students	
			Communicative structures How would you categorise? Can you make a distinction between? Which is the best answer' Can you agree with the outcomes? How could you determine?		Activity 1: Parts of the brain Handout with the link of the video: link, the image and the grid		

2	25 min	Ss will be able to: - identify motives and causes - make	T explains the task, monitors ss In group (3- 4 ss each group) have to read the text, answer the questions and motivate them.	Skills L S R W	■ Whole class	• Unit 2- Lesson 4-	The activity will be evaluated by
		hypothesis -presenting and defending opinions by making judgments about possible scenarios		Key vocabulary Same vocabulary of activity 1	work □ Pair work □ Individual work	Unit 2- an Lesson be4.pdf wi	a grid The answers will be checked will the
		(Problem solving activity)		Communicative structures Why did you chose How would you prove/disprove? What choice have you made? What information would you use to support your ideas?		Unit 2- Lesson 4 Activity 2: Challenge yourself: if you were a doctor Handout with the text The text has been adapted from link	whole class

Unit number 2 Lesson number 5 Title Oral presentation on nervous system (part 1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Ss will be able to: - produce power points on the nervous system topic - provide explanation - clarify doubts - demonstrate basic understanding of related topic	T divided the class in groups of 3 students each previously. Ss need to have organized their presentation in advance, thus the lesson is given to them as homework. In class Ss have to present their ppt to their classmate. Allotted time to each group (15 to 20 min)	Key vocabulary Depending on the chosen topic Communicative structures Today, we are going to present Do you have any questions for us As you can see in this slide/image The following slide will show Can you notice the differences between this and that Do you think there is consistency in	□ Whole class ■ Group work □ Pair work □ Individual work	• Unit 2- Lesson 5.pdf Unit 2- Lesson 5 Activity 1: Students' production Handout with all the instructions to do the oral presentation	Teacher as well as students have to assess the presentation using the same grid that is included in the sheet. (T and Ss assessment)

Unit number 2 Lesson number 6 Title Oral presentation on nervous system (part 2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Ss will be able to: - produce power points on the nervous system topic - provide explanation - clarify doubts - demonstrate basic understanding	T divided the class in groups of 3 students each previously. Ss need to have organized their presentation in advance, thus the lesson is given to them as homework. In class ss have to present their ppt Allotted time to each group (15 to 20 min)	Key vocabulary Depending on the chosen topic Communicative structures Today, we are going to present Do you have any questions for us As you can see in this slide/image The following slide will show Can you notice the differences between this and that Do you think there is consistency in	□ Whole class ■ Group work □ Pair work □ Individual work	• Unit 2- Lesson 6.pdf Unit 2- Lesson 6 Activity 1: Students' production Handout with all the instructions to do the oral presentation	Teacher as well as students have to assess the presentation using the same grid that is included in the sheet. (T and Ss assessment)

Unit number2Lesson number7TitleMuscle tissue (Part 1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	20 min	Ss will be able to: - comprehend what muscle tissue is - detect its different functions - determine the relationship between muscle tissue and nervous system	T explains the task, uploads the video and checks how they work Ss have to watch the video, first individually and then in pairs answer the questions	Key vocabulary Excitability, contractility, extensibility, elasticity, involuntary, voluntary Communicative structures How would you categorise? Can you make a distinction between? Which is the best answer' Can you agree with the outcomes? How could you determine?	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 2- Lesson 7- Key.pdf • Unit 2- Lesson 7.pdf Unit 2- Lesson 7 Activity 1: Muscle tissue introduction Handout with the link of the video (link) and questions	T with the whole class check the answers.

2	30 min	categorize the different types of muscle cells (Step 1 and 2) - identify their characteristics (Step 1 and 2) the image of the characteristics (Step 1 and 2)	T explains the task and checks how they work together Ss have to read the text (Step 1) Ss in pairs have to label the image and complte the table (Step 2)	L S R W (Step 1) ve to label d complte Key vocabulary Myocyte spindle gap	Lesson 7- Key.pdf • Unit 2-	This activity will be evaluated by following the grid shown in the handout.
				Communicative structures Where can you find this characteristic? Where is it written Can you identify the differences in these three images? How does this cell appear?	muscle tissue Handout with the text, images, grid	

Unit number 2 Lesson number 8 Title Muscle tissue (Part 2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	Timing 20 min	Step 1 Ss will be able to: - operate the microscope - identify the microscope slides with the images on the handout Step 2 Ss will be able to: - categorize the different types of muscle tissue - explain each characteristic of the muscle shown	T explains the task and monitores how they work in the laboratory. Step 1 Ss have to use the microscope properly in order to focus the slides. Ss have to match what they see in the microscope with the image in the handout. Step 2 Ss have to label the image with the proper term Ss have to justify their answers basing them on the characteristics of the muscle tissue	Skills L S R W Key vocabulary They have to use the same vocabulary used in Unit 2 - Lesson 7 : Muscle tissue (Part 1) Communicative structures How can we focus the slide? My microscope doesn't work I cannot distinguish thedifferent muscle tissues Why is the image red and the slide is not? Can we use	Interaction □ Whole class □ Group work □ Pair work ■ Individual work	• Unit 2- Lesson 8- Key.pdf • Unit 2- Lesson 8.pdf Unit 2- Lesson 8 Activity 1: Observation muscle tissue Handout with the images.	T will assess ss by using the grid on the handout.

2	30 min	Step 1 Ss will be able to: - understand the skeletal muscle organization by watching the video - learn the different parts of the skeletal muscle by drawing them Step 2 Ss will be able to: - comprehend the relationship between the skeletal muscle and its parts by answering true and false statements	T uploads the video link (which explains the skeletal muscle organization). T pauses the video to allow the ss to draw the main parts. Ss have to watch the video and draw (Step 1) In pairs, ss have to decide whether the statements in the handout are true or false. (Step 2) Ss have to correct the false statements (Step 2)	Key vocabulary Muscle bundle fascicle muscle fiber myofibril sarcomere myosin actin epimysium Communicative structures Can you please stop the video? Can you give us extra time, please? I cannot draw very well Can I make a sketch? Based on what you know, how would you correct this statement? How could you determine?	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 2- Lesson 8- Key.pdf • Unit 2- Lesson 8.pdf Unit 2- Lesson 8 Activity 2: Skeletal muscle Handout with the true and false statements	T checks the answers with the whole class, and controls their drawings
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Unit number2Lesson number9TitleConnective tissue

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	15 min	Ss will be able to: - find the main pieces of information in the text in order to answer the questions - infer information from the drawings - deduce the answer to a question from their knowledge	T explains the task and controls the activity Ss i have to read the text and in pairs answer the questions	Key vocabulary Ground substance, fibers specialized cells connective tissue proper specialized connective tissue loose connective tissue dense connective tissue	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit2- Lesson 9- Key.pdf • Unit 2- Lesson 9.pdf Unit 2- Lesson 9 Activity 1: overview of connective tissue Handout with the text and the questions Text Adapted from link	Ongoing assessment

2 35 min Step 1 Ss will be able to: -T uploads the video, Skills ☐ Whole • Unit2-T will deduce the main and controls how the class evaluate the Lesson S R information from the video ss share the W ☐ Group 9written text in order to fill in the table information gathered work Key.pdf by following **Key vocabulary** Step 2 Ss will be able to: -Ss have to watch the Pair work • Unit 2the grid on Areolar adipose read and understand the video and complete Lesson the handout Individual reticular elastic fibrous concept map of the target the table Ss in pairs 9.pdf work hyaline spongy bone content - elaborate the have to read the Unit 2compact bone cartilage main information from the concept map and to Lesson 9 watch the video again video and the concept Activity 2: Communicative map - summarize all their in order to write a Connective structures findings in a complete short text on tissue proper Can you stop the video connective tissue written text Handout now? What deduction with the link can you make from this of the video table? Would it be link (general better if.... How can you information determine... How would of you prioritise ...? What connective inference can we make? tissue) and the concept map

1 15 min Ss will be able to: -T uploads the video link Skills ☐ Whole • Unit 2-Ongoing deduce the main (overview of bone tissue: class assessment Lesson S R information from the functions, structure) and W ☐ Group 10 at the end of video to answer the explains the task Ss work key.pdf | the unit T **Key vocabulary** questions -understand watch the video Ss in ■ Pair work • Unit 2checks the Long (femur), short the functions of bone pairs answer the Lesson answers with ☐ Individual (wrist), flat(skull), tissue 10.pdf questions the whole work irregular (vertebrae) class Unit 2compact bone, spongy Lesson 10 bone marrow axial Activity 1: skeleton appendicular Introduction skeleton to bone tissue Communicative Handout structures with the link What are the main of the video functions of the bone and tissue? I think that the questions video shows.... I understood that there are.... In my opinion the video explains..... I disagree I agree You are right This is wrong

2	15 min	Ss will be able to: - interpret the diagram - understand its organization - infer what the consequences are with low calcium levels in order to complete the task	T explains the task and monitors their work Ss in pairs have to fill in the activity after observing and studying the diagram	Key vocabulary Parathyroid Gland plasma parathyroid hormone blood stream calcitriol Communicative structures What does this arrow rapresent? How would you evaluate What choice would you have made? What judgement would you make about? What data would you use to make this decision?	□ Whole class □ Group work ■ Pair work □ Individual work	• Unit 2- Lesson 10 key.pdf • Unit 2- Lesson 10.pdf Unit 2- Lesson 10 Activity 2: Factors that increase the blood calcium levels Handout with the diagram and fill in exercise	T checks the answers with the ss
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3	20 min	Step 1 Ss will be able to: - identify the different parts of the compact bone Step 2 Ss will be able to: - understand the function of each part of compact bone and their relations to each other	T uploads the video link (structure of compact bone), explains the task Ss have to watch the video twice Step 1: Ss in pairs have to label the image Step 2: Ss in pairs have to match the part of the bone with its function	Key vocabulary Epiphysis diaphysis articular cartilage periosteum endosteum Communicative structures Would it be better if? How could you determine? Can you list the part of the bone? What are the functions? Can you identify the different parts?	□ Whole class □ Group work ■ Pair work □ Individual work	• Unit 2- Lesson 10 key.pdf • Unit 2- Lesson 10.pdf Unit 2- Lesson 10 Activity 3: compact bone Handout with the link of the video, the image and the table	Each pair compare their answers with the others. T checks the answers
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Unit number 2 Lesson number 11 Title Blood (Part 1)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10 min	Ss will be able to: - interpret and describe the image - identify the different elements in blood - reason on the different percentage of each element	T explains the task and monitors the class Ss in pairs have to describe the image by writing a short text	L S R W Key vocabulary Plasma platelets white cells solute red blood Communicative structures How will you interpret this image? What do these percentages stand for? Are you able to read this pie chart? How can we classify these elements?	□ Whole class □ Group work ■ Pair work □ Individual work	• Unit 2- Lesson 11- Key.pdf • Unit 2- Lesson 11.pdf Unit 2- Lesson 11 Activity 1: Introduction to blood Handout with the image	T listens to their answers and gives feedback

2 3	30 min	will be able to: - monitors how ss work	T explains the tasks and monitors how ss work Step 1 Ss in group (number of	Skills L S R W	Whole classGroup	• Unit 2- Lesson 11-	Ongoing assessment
		information for each topic - understand the information they found Step 2 Ss (in group) will be able to: -rework their information -report orally their findings	students in each group depends on the total number of the class) have to search the information via web and books. Step 2 Each group share their information with the whole class Ss have to take notes while the other students explain their topic	Key vocabulary Content topic related Communicative structures How could you determine that? As you can see from this In conclusion This topic is related with The main content of our report deals with In other words This information could be used to support the view	work Pair work Individual work	Key.pdf • Unit 2- Lesson 11.pdf Unit 2- Lesson 11 Activity 2: Blood composition Handout with the topic that they have to choose	

3	10 min	Ss will be able to: - collect all the pieces of information - recast their notes -infer some possible connections - create a brief text	T explains the task and monitors the ss Ss have to read their notes Ss have to write a short text about the function of the blood by gathering their notes, inferences and conclusion	Key vocabulary Content related topic Communicative structures How would you prove? Based on what we know, how would you explain What information should we use to support our view? In my opinion I agree/disagree Can you infer the function of this element from what you have read Which statement supports this function?	□ Whole class ■ Group work □ Pair work □ Individual work	• Unit 2- Lesson 11- Key.pdf • Unit 2- Lesson 11.pdf Unit 2- Lesson 11 Activity 3: Blood function	T evaluates the group work of activity 2 and 3 based on the grid in the handout
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Unit number 2 Lesson number 12 Title Blood type (Part 2)

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	50 min	Ss will be able to: understand the test (Step 1) comprehend all the steps that need to be performed (Step 2) do the experiment (Step 2) examine and understand the results to complete the task(Step 2)	T explains the activity and monitors how they work in the lab Step 1 Ss have to read the text individually Step 2 In pairs, ss have to perform the experiment in pairs, ss have to do the exercise basing on their previous genetic knowledge	Key vocabulary Agglutination transfusion antigens Rh factor Communicative structures What does this result mean? How can I interpret the result? What conclusion can we draw? Can you propose an alternative? How would we test?	□ Whole class □ Group work ■ Pair work ■ Individual work	• Unit 2- Lesson 12 Key.pdf • Unit 2- Lesson 12.pdf Unit 2- Lesson 12 Activity 1: Blood types experiment Handout with the text and the procedures to do the experiment	Ss share and check their own anwers with the whole class and motivate their choices T gives the correct answer and explains the reason T evaluates their work basing on the grid shown on the handout

 Unit number
 2
 Lesson number
 13
 Title
 General Review before the Final Test

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	10 min	Ss will be able to: - recognize and identify the different types of tissues by labelling the images	T explains the task, monitors how ss work Ss in pairs have to look at the image and match the latter with the terms given	L S R W Key vocabulary Review of whole Unit 2 Communicative structures What does this image remind you? Can you recognize the number of layers? Can you identify some structures? Do you remember the name of this particular tissue?	□ Whole class □ Group work ■ Pair work □ Individual work	• Unit 2- Lesson 13 Key.pdf • Unit 2- Lesson 13.pdf Unit 2- Lesson 13 Activity 1: Slides Handout with the images of the tissues	T checks the answers with the students

2 40 min	Ss will be able to: - connect the various elements that belong to each tissue - recognize by the presence of a single term its logical connection	T explains the task Ss in pairs have to fill in the concept map by using their knowledge and notes	Skills L S R W Key vocabulary Review all the terms in Unit 2	☐ Whole class ☐ Group work ■ Pair work ☐ Individual	Lesson f 13 t	T checks the fill in with the whole class
	to the rest		Communicative structures Which is the right term to write here? Do you remember how this tissue is divided? What are the functions of this tissue? How do you spell it? I agree/disagree	work	13.pdf Unit 2- Lesson 13 Activity 2: Concept map Handout with the concept map	

 Unit number
 2
 Lesson number
 14
 Title
 Final Test

Activity	Timing	Learning Outcomes	Activity Procedure	Language	Interaction	Materials	Assessment
1	distingue differentissue kethe slid microso the charand funtissue - the con	Ss will be able to: - distinguish the different types of tissue by observing the slide under the microscope - explain the characteristics	questions - match each tissue with its functions -	Skills L S R W Key vocabulary The whole terms of unit 2	□ Whole class □ Group work □ Pair work ■ Individual work	 Unit 2- Lesson 14 Key.pdf Unit 2- Lesson 14.pdf 	The test will be evaluated by the grid on the handout
		and functions of each tissue - comprehend the complex organization of each tissue		Communicative structures There is no communicative structure because it is a writen test		Unit 2- Lesson 14 Activity: Final Test Handout with the questions and tasks	