ПЛАН УРОКА

Предмет	Биология	
Учитель	Кособоков А.В.	BILIM
Школа, класс	СКО, г. Сергеевка, КГУ «СШ им. Героя Социалистического Труда Е. Шайкина», 8 класс	Land
Тема урока	Prokaryotic and eukaryotic cell structure	www.bilimland.kz

Lesson	By the end of the lesson			
objectives:	All students	will be able to:		
	describe the s	tructure of prokaryo	tic cells and euk	aryotes.
	Most student	s will be able to:		
	compare the s	structure of prokaryo	otic cells and euk	aryotes.
	Some studen	ts will be able to:		
	determine the	value of organoids	in the life of the	cell.
Assessment	1. Students co	mpare the structure	e of prokaryotic a	and eukaryotic cells
criteria:	on the basis o	f Illustrations.		for a lease station and
	2. Name evide	ence of similarities a	and differences c	or prokaryotic and
		IS. tifia tarminalaav duu	ing the lesson	
	3. Apply scient	describe a model o	f the coll	
	Students			
objectives.	On the basis	s of the obtained	knowledae si	milar and distinctive
0.0,000,000.	features of e	eukarvotic and pro	karvotic cells	are determined and
	named.			
	Vocabulary a	nd terminology:		
	English	Transcription	Kazakh	Russian
	prokaryote	prəʊˈkarɪəʊt	прокариот;	прокариот
			ядросыз	
	eukaryote	juːˈkarɪəʊt	эукариоттар;	эукариот
			ядролылар	
	nucleus	ˈnjuːklɪəs	ядро	ядро
	cell wall	sel woːl	жасуша	клеточная стенка
			қабырғасы	
	cell	sel ˈmɛmbreɪn	жасуша	клеточная
	membrane		жарғақшасы	мембрана
	plastid	ˈplastɪd	пластида	пластида
	mitochondri	ˌmʌɪtə(ʊ)ˈkɒndrɪ	митохондрия	митохондрия
	on	ən		
	cell vacuole	sel ˈvakjʊəʊl	жасуша	клеточная
			вакуоль	вакуоль
	ribosome	ˈrʌɪbə(ʊ)səʊm	рибосома	рибосома
	cytoplasm	ˈsʌɪtə(ʊ)plaz(ə) ml	цитоплазма	цитоплазма
	endoplasmi	lendau'nlazmik	энлоппазмал	энлоппазматичес
	enuopiasiili	lendeo hiazintik	อกมุบเมเลงเพลม	эпдоплазматичес

	c reticulum	rɪˈtɪkjʊləm	ық ретикулум	кий ретикулум
	nucleoid	ˈnjuːklɪɔɪd	нуклеоид	нуклеоид
	Useful expressions for dialogue and writing:			
	In prokaryotic/eukaryotic cells present/absent			
	The similarity in the structure of prokaryotic and eukaryotic cells is			
Value links:	Respect for yourself and others. Transparency and academic integrity. Cooperation. Patriotism and civic responsibility on the basis of the National idea			
Interdisciplin	Natural science, chemistry			
ary		e, enemiery:		
connections:				
The use of	Use of Internet resources, app applications, videos.			
ICT:				
Prior	«Structure of plant and animal cells», grade 7.			
knowledge:				

The lesson plan

Planned stages of the lesson	Planned activities in the classroom	Resources
The beginning of	1). Mental attitude. «Smile»	
the lesson	Aim: Creating a favorable psychological	
0_1	atmosphere.	
	Organization : The teacher offers to look at each other and smile.	
1-4	2). Repetition and updating of knowledge.	Twig
	The teacher shows a short video clip of the video – «What is cell?» and further asks questions:	https://twig
	- What are the signs that you will determine that this is an animal cell? What are the signs that you will determine that this is an animal cell?	<u>bilim.kz/en/film/what</u> <u>-is-a-cell</u> (ENG) (00:49 сек)
4–7	- How does an animal cell differ from a plant cell (a comparative image of plant and animal cells)?	Training material https://twig-
	How does an animal cell differ from a plant cell? Task : the Teacher asks to remember and record on the form part of plant and animal cells.	<u>bilim.kz/uploads/ma</u> <u>terial-</u> <u>group/6/en/twig-</u> <u>thecell.zip</u> (ENG)
	Formative assessment : peer assessment. On the Board displays a form with the correct answers. Students exchange forms and assess each other.	cells01_PlaAniCell_ BLANK

	Criterion	Descriptor	Plant and Animal Cell
7–8	Defines the main parts of plant and animal cells	Correctly defines the main parts of plant and animal cells. For each correctly defined part of the cell – 1 point.	cells01_PlaAniCell
8–10	 3) Division into «Puzzle» Aim: the class devide Organization: stude from the cut leaves (p Procedure: the Teach 	groups. Reception into 2 groups. nts collect the image uzzles). cher offers students to	Annutre units annu an California de la california Nacionalitationes Nacionalitationes
	two different images into two groups.		
	4). Call stage: Aim: describe the s cells and eukaryotes.	Annex 1	
	Organization : demon Procedure : Studen closely at the resul puzzle images (duplid whiteboard) and try t the lesson:	estration of the image. ts are invited to look ting collection of the cated on an interactive o formulate the aim of	
	 compare the struct prokaryotic cells 	ure of eukaryotic and	
	Formative assessme	ent: teacher's praise	
l he middle of the lesson	5). Differentiated tas (multi-level tasks tailo needs, result-oriented	ks red to individual l according to learning	
10–25	<u>Task №1.</u> Reception: "Biologic	cal battle".	a) №4956. Cells in Bacteria
	(The method of activ (Differentiation of ok of success).	<i>ve learning),</i> bjectives and criteria	BILIM Land
	Form of work: group Level of thinking ski Aim: compare the structure cells and eukaryotes.	work of students. IIs : Analysis. ucture of prokaryotic	https://bilimland.kz/ en/courses/biology- en/evolution/biology -the-science-about- life/lesson/cells-in-
	Procedure : Students web resource bilimlan are given 10 min. The the interactive whitebo The team that makes	study materials of a d.kz (a, b). Students in they come in turns to pard to fill in the table. the least mistakes	bacteria b) №4872. The cellular structure



25–35	OVA * Cell vali Cell vali Cell vali Regelum Cell vali Begelum Cell vali Begel	paper, plastic, fabric, wire, glue, etc.
35–38	Task №2Reception: «Modeling».(Active learning method)Form of work: group work of students.Level of thinking skills: Synthesis.Purpose: determine the value of organoidsin the life of the cell.How it works: from improvised materialsstudents model prokaryotic and eukaryoticcells.Formative assessment. Teacher's praise.	https://create.kahoo t.it/share/cell/50b3f9
	Task №3 Consolidation of knowledge Form of work: individual Formative assessment: teacher assessment	<u>8c70b3302ab8</u>
The end of the	Feedback. Active learning	
iesson 38–40	(Differentiation, result, conclusions on achievement of goals)	
	Reflection	
	Aim: Structured reflection of learning	
	 What did you learn in lesson today? What didn't you understand? What do you need to work on? 	

Differentiation- how do you plan to provide more support? What tasks do you plan to set for more capable students?	Assessment-how do you plan to check the level of learners ' learning?	Health and safety
Differentiation aims to meet the needs of each student and to	At each stage of the lesson, a formative assessment is carried out: - peer assessment according to the developed criteria and descriptors;	Reminder of compliance with the rules of technology. Visminda seen in
of all. The lesson used several methods of	- teacher's praise and comments; - self-assessment.	methods.

differentiation.			
1 Differentiation by			
level of training			
(low medium)			
2 differentiation by			
z.unerennation by			
interpersonal			
(linguistic, visual-			
spatial).			
3.Differentiation in			
the degree of			
independence			
Lesson reflection			
Was the purpose			
of the lesson or			
learning objectives			
real and			
accessible? Have			
all students			
reached the			
learning goal? If			
the students have			
not vet reached			
the goal why do			
vou think?			
Correctly carried			
out differentiation			
in the classroom?			
Effectively if you			
Lifectively if you			
during the stores			
vvere there any			
deviations from			
the lesson plan,			
and why?			
Overall assessment			
I wo things are best passed on the lesson (carausius teaching and learning)?			
Une:			
Iwo:			
what could help to make the lesson even better? (concerning teaching and			
	learning)?		
	One:		
what did i learn in this lesson about the class of about the			
achievements/difficulties of individual students?what should I look for in the next			
	lesson?		