

MCAS High School Biology

Sample Blank Reference Sheet for Students with Accommodation A9

INSTRUCTIONS:

The following sample reference sheet is ONLY for students who have accommodation A9 listed in their IEP or 504 plan.

Before testing:

Schools should print out the following pages (or a reference sheet that has been submitted to and approved by the Department) and distribute to students who have accommodation A9 so that students can practice using the reference sheet. Schools should also remind students that during testing they may only use a reference sheet that has not yet been filled in.

During testing:

At the start of each test session, test administrators should check that that they are only providing reference sheets that have not already been filled in, and that they are providing them only to students who have accommodation A9 in their IEP or 504 plan.

Test administrators should remind students that they may not use any sheets that were filled in previously, nor any other reference materials or notes. Results **may be invalidated** for students who use a reference sheet that has already been filled in.



MCAS High School Biology

Sample Blank Reference Sheet for Students with Accommodation A9

Note: Students may ONLY be provided with a blank reference sheet to use during testing.

Molecule Building Blocks Elements Functions C L P C	Molecules to Organisms: Structures and Processes							
C L P NA NA - ACGT NA - ACGU Mitosis # chromosomes in parent cell # chromosomes in resulting cells types of cells produced # chromosomes in resulting cells types of cells produced C + W + S → G + O + O Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous	Elements: C	F	l	N	0	P_		_S
L P NA NA - ACGT NA - ACGU # chromosomes in parent cell # chromosomes in resulting cells types of cells produced C + W + S G + O Function(s) Circulatory Digestive Excretory Nervous		1	Build	ing Blocks		Elements		Functions
P NA tc tc Mitosis Mitosis # chromosomes in parent cell # chromosomes in resulting cells types of cells produced	С							
NA — ACGT NA — ACGU # chromosomes in parent cell # chromosomes in resulting cells types of cells produced C + W + S → G + O G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous	L							
tc tl Cell Cycle Mitosis NA – ACGT NA – ACGU # chromosomes in parent cell # chromosomes in resulting cells types of cells produced C + W + S → G + O G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous	Р							
NA - ACGT NA - ACGU # chromosomes in parent cell # chromosomes in resulting cells types of cells produced C + W + S → G + O G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous	NA							
NA - ACGU # chromosomes in parent cell # chromosomes in resulting cells types of cells produced C + W + S → G + O G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous			tc	—]	tl	Cell Cycle
NA – ACGU # chromosomes in parent cell # chromosomes in resulting cells types of cells produced C + W + S → G + O G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous						Mitosis		NA
types of cells produced C + W + S → G + O G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous		# c	hromosom	es in parent	cell			Gi
C + W + S → G + O G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous		# c	hromosom	es in resultin	ig cells			
G + O → E () + C + W Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous		typ	es of cells	produced				S
Body System Organs/Structures Function(s) Circulatory Digestive Excretory Nervous	С	_+ <u>W</u>		+ <u>S</u>	>	G	+ <u>o</u>	
Circulatory Digestive Excretory Nervous	G	+ 0		→ <u>E</u>	() + <u>c</u>		+ <u>W</u>	
Digestive Excretory Nervous	Body System	Organs	/Structure:	S	Fund	ction(s)		
Excretory Nervous	Circulatory							
Nervous	Digestive							
	Excretory							
Respiratory	Nervous							
	Respiratory							



Heredity

chromosomes in parent cell # chromosomes in resulting cells types of cells produced

Punnett square

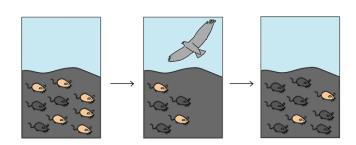
each square = ____%

Gametes are _____ cells and _____ cells, which are h____ cells.

Fertilization results in a <u>z</u> which is a <u>d</u> cell.

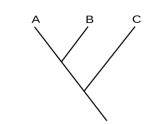
Changes in the sequence of nucleotides in a cell's DNA are called m_____.

Evolution



Dark-colored mice were more likely to _____

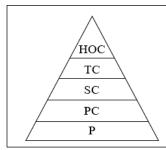
and ______ because of ______.



Species A is more related to Species ____

than to Species ____.

Ecology



A food web is a model that shows the flow of ______ from _____ to _____ .

10% Rule: Approximately 10% of _____ is available to the

M = (+,+)

C = (+,0)

P = (+,-)

Biodiversity increases when there are ______ species and _____ individuals.



Carbon Cycling

Process	Carbon In? In what form?	Carbon Out? In what form?
Photosynthesis		
cellular respiration		
Decomposition		
Combustion		

Science Prefixes

auto – self	hetero – different	pheno – physical
di – two	homo – same	poly – many
geno – genes	multi – many	uni – one

Science Practices

What is the Claim?

What is the Evidence?

What is the Reasoning?

Was data asked for in the question? Did you include it in your answer?

If asked to provide a question, is it a testable question?

* If this sample reference sheet is used as is, or if text is *removed*, additional Department approval is NOT necessary. If information is *added*, or if a different reference sheet is created, the reference sheet must be submitted for Department approval.