MCAS High School Biology
Sample Reference Sheet for Students with this Accommodation

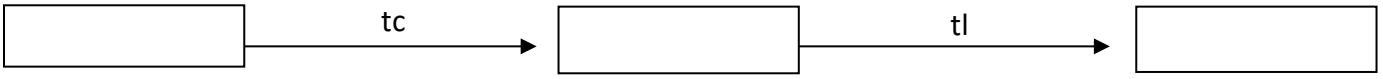
ONLY for use by students on the MCAS Biology test who have this accommodation listed in their IEP or 504 plan

Note: Students may NOT use a reference sheet that has already been filled out prior to the beginning of the test administration, and test administrators MUST check to confirm that they are providing students with blank sheets.

Molecules to Organisms: Structures and Processes

Elements: C_____ H_____ N_____ O_____ P_____ S_____

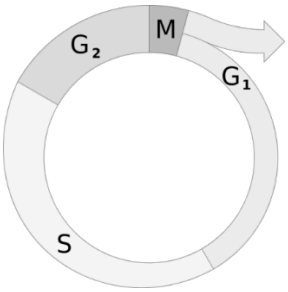
Molecule	***Building Blocks***	***Elements***	***Functions***
C			
L			
P			
N A			



__NA – ACGT
__NA – ACGU

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

Cell Cycle



C_____ + W_____ + S_____ → G_____ + O_____

G_____ + O_____ → E_____(_____) + C_____ + W_____

Body System	***Organs/Structures***	***Function(s)***
Circulatory		
Digestive		
Excretory		
Nervous		
Respiratory		

Heredity

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

Punnett square

____	____
____	
____	

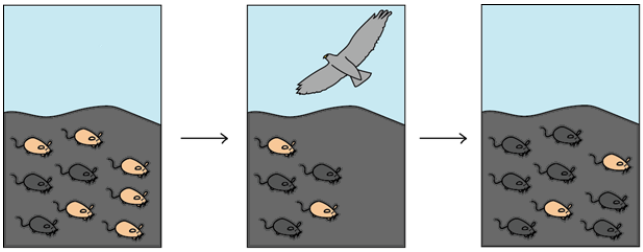
each square = ____%

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

Fertilization results in a z_____ which is a d_____ cell.

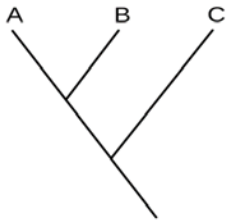
Changes in the sequence of nucleotides in a cell's DNA are called m_____.

Evolution



Dark-colored mice were more likely to _____

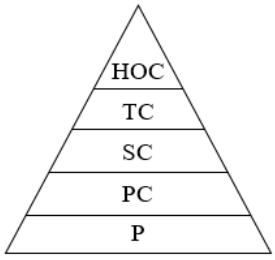
and _____ because of _____ _____.



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?