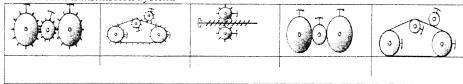
## June Review Term 3

Topic 1- Links and Guides and Systems

Removable
- FT
Non removable
Rigid
Elastic Flexible

- 2. For the following examples, state the 4 parts of a link that apply to it.
- a- The cop of a pen:
- b- A poster of Justin Beiber scotch taped to the wall:
- 3. What are the three types of guides?
- 4. What is the movement for a helical guide?
- 5. What is the difference between a transformation and a transmission system?
- 6. What do the terms driver, driven and intermediate mean?

Name each transmission system.



5. What role does	photosynthesis play in	the carbon cycle?	
6. Fyplain how to	ossil fuels are formed.		
	istics of the following to Boreal	Temperate	Grasslands
ropical	Boleai	Temperate	Gradien
			."
Arctic tundra	Deserts	Alpine	Lakes
ř			
Rivers and streams	Wetlands	Estuaries	Oceans and seas
•			
- A			4
		i	
Coral reefs	· ,		

4. Name different ways carbon dioxide is released into the environment.

- 8. From the systems listed in question 7, which is the only non-reversible one?
- 9. What is the formula to calculate speed change?
- 10. If the driver of a gear train has 40 teeth and the driven has 20 teeth, what is the speed change? What if the driver had 20 teeth and the driven had 40?

11. Name each transformation system and give the movement for each part.

## **Topic 2- Materials**

1. Explain what a constraint is.

2. Fill in the table by giving the description of the constraints below and give an example for each.

example for each.				
Compression	Tension	Torsion	Deflection	Shearing
	,			
Ì				
	4	i		
Y ,		!		
,	0.00			1

Elas	_	Plas tic		Fracture
			i	
4. Give	the definition of the	following propertie	ts.	
Hardness	Elasticity	Resilience	Ductility	Malleability
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Statistica de la companya del companya de la companya del companya de la companya del la companya de la company	**************************************		
			ı	
		1		
Stiffness	Resistance to	Thermal	Electrical	
free was prior time to an in a time to prior to distinct the constraint of the const	corrosion	conductivity	conductivity	
* *			İ	ŧ
		- 1		
		4		
	other in a blanch and a first of the comments		Palasan control control	,
	2 main characteristic		The second secon	
Wood and Modified wood	Ceramics	Metals and Alloys	Plastics	Composites
Modified wood	omendamental separate services and the services are the s	Miloys		1
	¥			
		ŕ	f .	
gallender der der der der der gegener in der			<u></u>	, seek
Γopic 3- Bio	osphere and Bi	omes		\$
-	-			
1. Explain				
ithosphere	Hydrosohere	e Atmos	phere	Biosphere
			* ***	
	1			

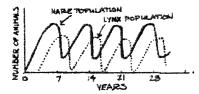
3. What is negative about methane and carbon dioxide?

	Define the term population.				
•	In a forest, 24 chickadees were born, 17 flew in for the summer, 12 died because of the harsh winter and 7 emigrated because of the lack of resources. Was there a population increase or decrease during the year?				
	Explain what population dens	ity is.	, i		
	You counted 150 dandelions i	in a 6 m <sup>2</sup> area. What is the	eir population density?		
	Give 2 examples of biotic and	l abiotic factors			
	Draw what each type of popul	lation distribution would	look like.		
	Clumped	Uniform	Random		
	7				
		."			
	Explain what a limit his fa	idoris.			
	The X's, O's, W's and T's rep	present different population	ons in a community.		
	The X's, O's, W's and T's rep  X T T TTO O X T T T	• •	•		
<b>).</b>	XTTTTOOXTTT	TTOOXTTTT	•		
3.	·	TTOOXTTTT	•		

B- Do you believe this community has a high biodiversity? Explain.

- 9. Use the graph to answer the questions.

  A-What causes the lynx population to increase?
  - B- What causes the hare population to decrease?
  - C- What causes the lynx population to decrease?
  - D- What causes the hare population to increase?
  - E- How long does this cycle last?



10. Define and give examples of the following words. Example Definition Mutualism Predation Parasitism Commensalism Competition

	Ecosystem	Producer	Consumer	Decomposer
Definition		· <u>1</u>	A COMMERCIAL ACTION	an
, and the second	1,			
Example				

- 12. Using the picture, answer the following questions:
- a- Name a secondary producer?
- b- Can the bird be a primary and secondary consumer?
- e- Make a food chain with 3 consumers
- d- Give a consequence of the lizard being taken out of the food web.
- 13. Explain why the sun is necessary for the energy flow between trophic levels.
- 14. Explain what biomass is.
- 15. What is primary productivity and what is it influenced by?

## **Topic 5- Earth and Space**

Refer to the notes you received.