DACTC ECO	OLOCY NOTES D		NAME:	
BASIC ECOLOGY NOTES PPT			DATE:	
What is ecolog	gy?		PERIOD:	
			between	and
their	, focusing on	transfer		
• It is a :	science of			
What do you n	nean by environment?			
The environme	ent is made up of	_factors:		
•	factors- all	organisms in	habiting the Earth	
•	factors	parts of the	environment (i.e	, soil,
	, moisture,	currents)		
	$\subset$			
	(			
		+		
		$\left( \right)$		
		•		
		*		
			form exhibiting all of the	
characteristic	s of life, an			
• The	level of or	ganization		
<u> </u>	a group of orga	nisms	living in the same	at
	that (ex. food, mates, sh		with each other for	
	_environment and are _		·	

	populations in a	& the	factors with which
	, terrestrial)		
	life supporting portions of	composed of	air,, fresh water
and salt water. • The	level of organization		
Habitat vs. Niche	2		
the _	a species plays in a commur	iity (job)	
t	the in which an organism _	out it	rs life (address)
Ais o	determined by the	0	f an organism, or
a	·		
organisms in a spec	<b>factor</b> - any biotic or abiotic factor th cific environment.	nat the	2of
Examples of limitir	ng factors-		
	Amount of		
	Amount of		
Feeding Relations			
• There are _	main types of feeding relationship	05	
	1		
	2		
	3		
	5		
all	l(plants), they trap	from	1 the
	of the food chain		
	all: they:	con	taining the sun's energy
•			
• Carnivores			
• Decompose	rs		

Herbivores			
- Eat _			
•	consumers		
•a	nimals		
a .			
Carnivores			
- Eat			
•			
	prey animals for food.		
•			
- Feed	on, dead anir	mals	
	···· <u></u> / 2000 0		
Omnivores			
- Eat	plants and animals		
N			
Decomposers	*!	omplex compounds of	مسط والمحمد بالمحمد بالمسطور مسط
•			
	animals into simpler	that can be	
Symbiotic Relations	ships		
	species living		
Tunna of a muchi			
Types of symbi	0515		
1.			
3			
	species	and the other is	harmed nor
helped			
Ev	on a trac	beens and evenables	tonia
LX	on a free,	bears and cyanobac	Teriu
	, such as a tropic	al orchid or a bromeliad, tha	ton another
	•	l support butfor	
aerophyte,			
	species	(parasite) and the	is
(host)			
• Parasite-	relationship		
Ex. la	mpreys,,flea	as,, tapeworms	
	· · ·	•	

\_\_\_\_\_\_ to \_\_\_\_\_\_ species

Ex. cleaning \_\_\_\_\_\_ and cleaner shrimp, \_\_\_\_\_

	Symbiosi	s Review	
Type of relationship	Species harmed	Species benefits	Species neutral
1.			
2.			
3.			
Trophic Levels			
• Each in a	foodis known a	s a level.	
<ul> <li>Trophic levels in an ecosystem.</li> </ul>	a feeding	in the of _	and matter
the habitat.	of	matter comprising a group	of organisms in a
• As you move o	ı food chain, both available	e&	
•is tra	nsferred upwards but is _	with each	transfer.
ENERGY		<u>Typical e</u>	<u>cosystem</u>
Heterotroph		consumer 2	1%
<u> </u>	R G Y	consumer 1	10%
		produce	ers (plants) 100%
		energy	//biomass
chain ecosystem	model that shows h	now matter and	move through an

Draw a sample food chain that you might see in Virginia: include a producer, a primary consumer, a secondary consumer, and a tertiary consumer

►

Food shows level	s possible feeding	in a community at each
• Represents a _	of interconnect	ed food
Food chain- just	_path of energy	
Food web po	ssible energy paths	
Nutrient Cycles		
Cycling maintains	(balance) in the	e environment.
• cycles to	investigate:	
1	cycle	
2	cycle	
3	cycle	
cycle- eve	aporation,,	condensation,
		cycle carbon and
through the environm	nent.	
cycle		
	nitrogen (N2) makes up nea	rly % % of air.
Organisms	use it in that form.	
and	d convert nitroge	n into forms.
Only in certain	and industrial	can nitrogen.
	atmosphe to make organic compounds lik	ric nitrogen (N2) into(NH4+)
Nitrogen-fixing		relationship with plants of the
• Some	fixing bacteria live	in the
	ngare esse environments like paddi <b>1 chains-</b>	ntial to maintaining the fertility of semi- es.

While energy	as it moves up the food chain,	in potency.

This is called \_\_\_\_\_\_

Ex: \_\_\_\_\_ & Bald \_\_\_\_\_