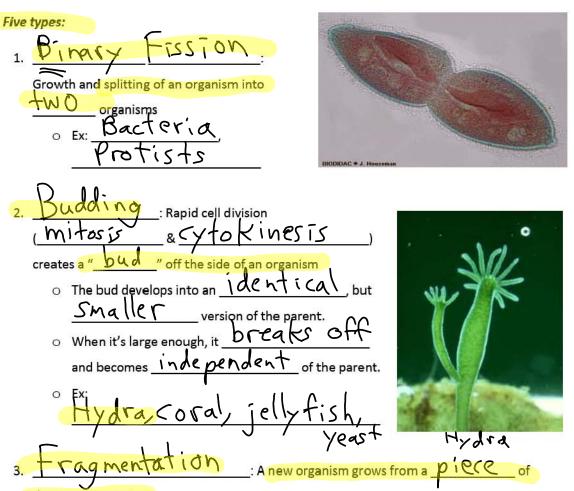
Name:	Unit 7: Heredity & Genetics	NOTES 7.01
FOCUS: Se	exual & Asexual Reproduction	
EQ:		
CarWh	n you explain the difference between sexual and asexual reproduction? In you give some examples of organisms that reproduce asexually and describ you give some examples of organisms that reproduce sexually and describ at is the advantage to a species of reproducing sexually versus asexually? In you explain the difference between mitosis and meiosis and describe whe	e the process?
Reproduc	<u>ction</u>	
• All	living things pass genetic information on to the ough the process of reproduction.	e next generation
thr	rough the process of reproduction.	
• Re	production can happen in two ways:	
	1. Sexual reproduction:	00
	 Sex means "TO Cross" Occurs when genes from Z Offspring contains a Mixture of genetic information from both Parents Offspring is Genetically Unique (difference) Asexual reproduction: Asexual means	ent from
0	Occurs when the genes from One parent are passed on to an Offspring is a genetic clone of the parent of the parent cell 1 Parent cell 1 Parent cell 1 Parent cell 1 Occurs when the genes from are passed on to an 3 Cytopiasm divides of the parent cell 1 Offspring is a genetic clone of the parent cell	2 Nucleus divides 4 Two daughter cells ent.

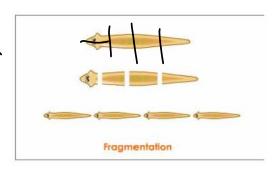
Name: _____ Unit 7: Heredity & Genetics NOTES 7.01

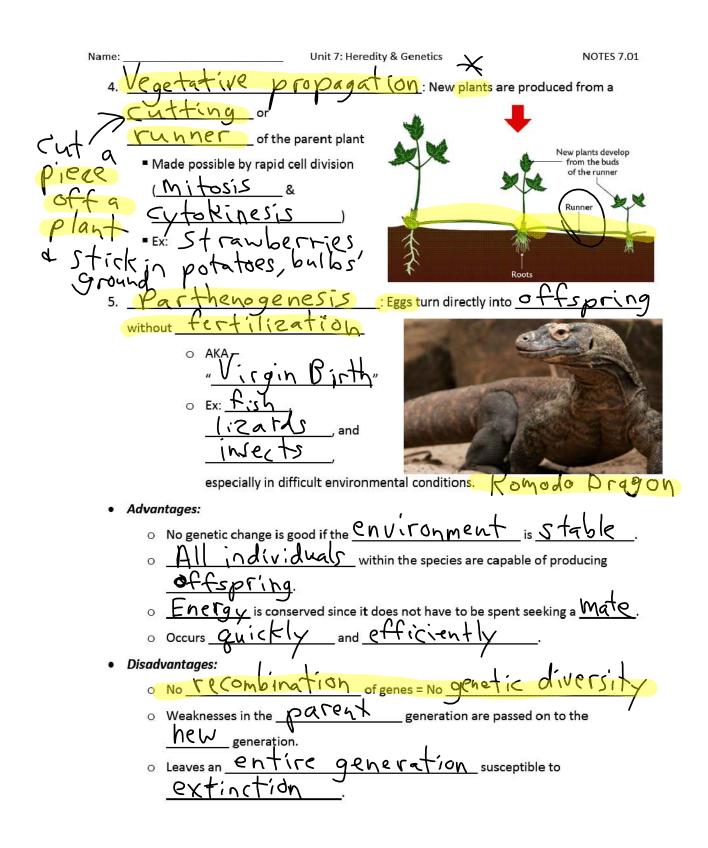
Asexual Reproduction











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Sexual Reproduc	<u>ction</u>				
other <u>h</u> • Occurs thr	ent provides $\frac{\text{Nalf}}{\text{Nalf}}$ the $\frac{\text{genes}}{\text{and female p}}$ and female prough the process of $\frac{\text{fertilization}}{\text{netes}}$ come together to produce one fertilized cell	which two sex cells			
Egg Production Ovaries produce Female gametes (sex cells) through Meiosis Egg = 23 chromosomes	Sperm Production Testes produce Male gametes (sex cells) through Meiosis Sperm Sperm 23+23=46 chromosomes	•An egg fertilized by a sperm forms a new cell called a Zygote. •Full set of DNA •Develops into a			
	ispring are genetically different from lps the species survive in an unstable environ olower rate of reproduction, but faster				
o Imp	provements in the species occur from generation to generate of the species occur from generation to generate occur from generate occ	ration through			
Disadvantages:					
° E	is expended to find, court, and copulate v	with a Mate.			
 Only half the individuals within a species are capable of producing offspring. 					
o Goo	od genes can be COVERED UP in the pro-	cess.			

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Processes that Make it All Happen: MITOSIS & MEIOSIS • Ase xual Reproduction Would not be possible with Mitosis. • Mitosis is the process that duplicates then divides the cell's nucleus.	
o Allows cells to be copied and reproduced Without Osing genes Makes new generations that are identical to the previous generation. Ex: Skin (ell production, growth, healing All 5 forms of asexual reproduction.	
Mormal # of of genes Cytokinesis Mitosis Aentical	١., ١., ١., ١., ١., ١., ١., ١., ١., ١.,

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o Meiosis is the process of dividing nucleus to produce gametes	leiosis. the sex ce((s).
o Body cells have 2 Copy of every gene, but after cells (eggs & perm) only have 1 Copy of Allows for diversity amongst offs of the cells are not all identical to each other. Occurs Only in sex cells (gametes) Ex: egg and sperm	meiosis, sex f every gene. since the sex
$= \cdots $	econd Division

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Reaction 7.01 - Compare and Contrast the processes and results of Mitosis & Meiosis.

