Science 9

## **Biology II**

Name: Date: Block:

- 1. Asexual Reproduction
- 2. Binary Fission

	,
Review:	
All genetic information within a cell is contained within the	
to be the 'molecule of life'. DNA is made up of nucleotides whic	
,, and a(adenii	ne, cytosine, guanine, and triyinine).
phospitate	
	base
deoxyribose sugar	
	·i
Asexual Reproduction	
Vhat is asexual reproduction?	
sexual reproduction occurs when an	is produced by only
. The offspring produced is	to
ne parent as the parent's genetic information is passed dire	
to barrons as the barrons Berrons micromatic to basses and	2011, 01110 1110 0110p1111.81
dvantages of Asexual Reproduction:	
Only parent is needed (no need to fin	nd a mate)
Reproduction occurs	•
Offspring and start reprodu	ıction
Offspring are	to the parent
Can live and interact with their environment	
visadvantages of Asexual Reproduction:	
• of	
• All individuals in a nagulation are	to
All individuals in a population are	
in their (example: di	
<ul> <li>Since all the individuals are genetically identically</li> </ul>	
the same way (example: if a sudden change in	n temperature occurs and

the organism cannot adapt, the entire population will die off)

	•
RIBSE	100
Binar	ion
	_

How can bacteria be...

поw	Helpful to us?	Harmful to us?		
	·			
	-	-		
	-	-		
	-	-		
				I
	are	that exist as s	ingle	
cells.	Bacteria reproduce asexually by a process cal	led		·
	t is binary fission? Ty fission is a type of asexual reproduction whi	ch occurs in bactoria		
DIIIai •	A cell (the original		individual.	
			marriada,	
•	cells have		information ([	ONA)
The p	process of Binary Fission:			
1				
	- Bacteria uncoils and replicates its Di	NA 💍	DNA	
•	•		1860	— parent cell
2	of	annuation for himomy	000	<b>F</b>
	<ul> <li>Bacteria begins to grow larger in pre- fission</li> </ul>	eparation for binary		
	- The cytoplasm and number of organ	elles increase		the DNA is copied
	- The strands of DNA move to opposit		( extens note) _	and each copy
	the cell	, c p c . c . (c . a . c ) c .	0000000	moves to opposite sides of the cell
3	of			
	<ul> <li>Cell elongates and a barrier is formed</li> </ul>	d in the middle	(875) (85) _	a barrier forms in the centre of the cell
	<ul> <li>The two strands of DNA are separat</li> </ul>	ed in this phase		centre of the cen
	_			
4	· · ·			
	<ul> <li>A new cell wall is formed</li> <li>Cell splits in the center and the parent cell gets divided</li> </ul>		separation of the two cells begins	
	into two new daughter cells	nt cen gets divided		two cens begins
	cell	· the identical cells		
	that form from the parent ce			
	- Each of the daughter cells contain a		GOS ( COS)	two independent, identical cells form
	replicated DNA and the necessary o		000	identical cells for III
	cell's survival	J		