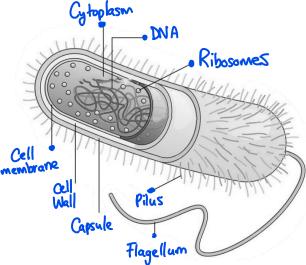
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BACTERIA CHARACTERISTICS PART II (Chapter 17.2)

STRUCTURE OF EUBACTERIA – While watching the Amoeba Sisters video on Bacteria, LABEL THE

PARTS of the bacteria cell.

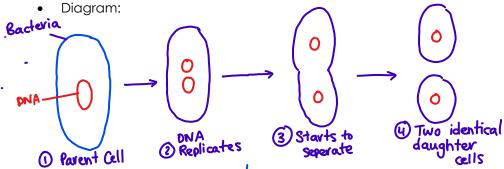


Functions:

- 1) Flagellum helps with movement.
- 2) <u>Capsule</u> extra protections and aids in attachment.
- 3) Pilus helps when attaching to surfaces.

BACTERIA REPRODUCTION

- Binary Fission The DNA is <u>copied</u> and the cell <u>divides</u> into two identical cells.
 - o Asexual Reproduction.



- Conjugation Forms <u>bridge</u> between two bacteria cells to transfer of genetic material.
 - o <u>Sexua</u> reproduction
 - o Join via a bridge called a <u>pilus</u>

•	Transformation - Picks up pieces of DNA from theenvironmen+.
•	Transduction - vivus transfers DNA into bacteria.
•	Diagram:
	Conjugation Transformation Transduction
	Virus
	Pilus
	Environment/
•	Spore Formation - When growth conditions are unfavorable, bacteria forms endo spore
	to protect DNA.
	 When conditions return to favorable the endospore opens and bacteria continues
	to grow.
SIGNIE	CANCE OF BACTERIA
•	Bacteria are used:
	• In food. Examples: yogurt, cheese, buttermilk, pickles, Kimchi.
	• In industry. Examples: <u>oil spills</u> purify water.
Contro	ol of Bacterial Growth
1)	<u>Disinfectants</u> - Usually chemicals such as alcohols, bleach, hydrogen
	peroxide.
	Antiseptic - Kill bacteria on the <u>skin</u> of humans or animals.
3)	Natural Body Defenses – skin, <u>fevey</u> .
4)	Vaccines - Small doses of live bacteria or killed bacteria which cause an(MMUNE
	response.
5)	Antibiotics - Medicines for bacterial infections.
	Antibiotics kill or stop growth of bacteria.
	o Antibiotics DO NOT work against viruses!
	 **Antibiotic Resistance = The ability of bacteria to protect themselves against the
	effects of an antibiotic.
	o Is antibiotic resistance a problem?
	- Leads to failure to treat diseuses
	 Is antibiotic resistance a problem? Leads to failure to treat diseuses Threat ens ability to perform medicinal procedures.
	111.