

BiologyTest(2017) Cheat Sheet by lina_renate via cheatography.com/46542/cs/13519/

Asexual vs. Sexual	
lots of offspring quickly,	disease/mute-
large colonies can form	=death, compete
to out-compete,	for food and
lots=many may survive	space, bad
if conditions change,	condition=wiped
less energy	out
genetic diversity, ext:	int: more
little energy to mate,	energy/risk to
more offspring can exist	mate, fewer
after disaster, int: more	produced, ext:
protection and care	gams,embryos,
	offs are unprot-
	ected

Interphase Cell grows and develops/ DNA replication Prophase Spindle fibres attach to centromeres/nuclear membrane disappears Metaphase Chromosomes align at equator Anaphase Sister chromatids pulled to poles Telophase Fibres disappear/ nuclear membrane re-appears Cytoke- contents of cell evenly divides nisis	Mitosis	
centromeres/nuclear membrane disappears Metaphase Chromosomes align at equator Anaphase Sister chromatids pulled to poles Telophase Fibres disappear/ nuclear membrane re-appears Cytoke- nisis	Interphase	
equator Anaphase Sister chromatids pulled to poles Telophase Fibres disappear/ nuclear membrane re-appears Cytoke- nisis	Prophase	centromeres/nuclear
poles Telophase Fibres disappear/ nuclear membrane re-appears Cytoke- contents of cell evenly divides nisis	Metaphase	· ·
membrane re-appears Cytoke- nisis membrane re-appears contents of cell evenly divides	Anaphase	•
nisis	Telophase	
DNA replication	•	contents of cell evenly divides

Meiosis (cont)	
Telophas	e Cell cells	divides into 2 then 4
Anything that's homologous is in meiosis1. Otherwise, it's the same as mitosis.		
1st 8 wee	ks of emb	yo development
morula	week 1 (end)	ball of cells
blastula	week 2 (end)	hollow ball of cells, cell can develop to any kind
gastrula	3 layers of cells (differentiation)	ecto: skin/ nerves, mes: muscles/bones, end: lungs/liver/dig- estive system lining
endo+ecto=meso		
stages of sexual reproduction		

egg and sperm come together at

gametes fuse to create a zygote

same time and place

embryo develops

Meiosis (cont)

mating

fertil-

ization develo

pment

DNA	
Chromatin	condensed DNA
Chromo- somes	condensed chromatin
Nitrogen bases	"steps of DNA"; a with t, c with g
Homologous pairs	chromes that are the same shape, size, have same genetic info in same spot; one from ea. parent

Fertilization: Pros and Cons		
external	very little energy mate, lots of offspring, spread widely in evrionment (less comp.)	many gametes die, many eggs aren't fertil- ized, offspring are unprot- ected
internal	embryo protected, offspring's parents will protect	more energy, fewer zygotes, more energy to raise

During late interphase Dna unwinds with enzymes/ bases are paired with new bases.

external	very little energy mate, lots of offspring, spread widely in evrionment (less comp.)	many gametes die, many eggs aren't fertil- ized, offspring are unprot- ected
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asexual r	asexual reproduction	
binary fission	mitosis in prokaryotes	
budding	buds in multicelluar can detach through repeated mitosis and form separate org.	
frag.	part of multicelluar breaks off due to injury and becomes separate org.	
veg.	stems, leaves, or roots are used to asex. repro.	
spores	spores grow into new org.	

Meiosis		
Prophase 1	Homo chromes pair	(crossing over)
Metaphase 1	Homo chromes align on opposite sides of equator	
Anaphase 1	Homo chromes pulled to opposite poles	(Indep. assort- ment)

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