New Terms - Reproduction of Cells (Introduction and Mitosis)

reproduction -	distinguishing characteristic of living things; the mechanism by which living things give rise to others of the same kind. Weve talked about
	two types already asexual reproduction and sexual reproduction
hinary fission -	also known as prokaryotic fission a form of asexual reproduction used
binary nission	hy bacterial cells
mitosis -	process of dividing the nuclear material The phase of the cell
111(0515	cycle
	where the cell divides into two daughter cells Occurs in somatic cells
	A type of asexual reproduction
meiosis -	process of dividing nuclear material in germ cells - for sevual
	reproduction
somatic calls -	hody cells that grow by mitoris and cytoplasmic division in multicellular
somatic cens -	organisms
gorm colls	special calls set aside for sexual reproduction where majosis occurs
chromosomo	bound DNA forming the genetic material
chromotid	one of a pair of duplicated chromosomes
sistor chromotids	a pair of attached chromatids
sister enromatius -	a pair of attached enformatids are attached; contains attachment
centromere -	site
	Suc
diploid coll	for incrotubules that move the chromosome during division.
uipiola cen -	by
	by the number $2n$
ahramasama numba	the number $2n$. r talls how many of each type of chromosome is present in a call. Is
chi omosome number	usually denoted by the letter <i>n</i> (which stands for the chromosome
	number)
narant call	cell that produces daughter cells through mitosis
parent cen -	the life evals of a cell including interphase and mitoris (prophase
cen cycle -	meterbase anaphase telephase autorlasmic division)
intornhasa	usually the longest part of the call cycle is the phase when the call
interpriase -	spends most of its time performing the functions of the cell and
	growing It has three different phases
C1 nhasa	growing. It has unce unreferr phases.
GI phase -	ic period minieuratery following milosis for cell growth before DINA
	15 duplicated
S nhasa	neried when DNA (abromosomos) is duplicated
S pliase -	period after DNA (chroniosonies) is duplicated
G2 pliase -	let stage in mitosie when chromosomes become visible as
propnase -	threadlike
	forms
motonhaso	chromosomes line up at the equator
ananhasa	ontoniosonics inc up at the equator
anapnase -	anachement of sister chromatids dreaks and degin migration to
	opposite

	poles
telophase -	chromosomes decondense, new membranes form nuclear envelope
Cytokinesis -	cytoplashi divides and two separate cens are formed, often caned
	cytoplasmic division.
daughter cells -	the product of mitosis
spindle -	network of fibers or microtubules that attach to the chromosomes
	before they are pulled to the poles of the cell.
centrioles -	organelles that migrate to the poles of the cell and produce the
	aster
aster -	a series of radiating microtubules that function from the
	poles of the cell
cleavage furrow -	the process by which the cell membrane begins to pinch the cytoplasm and two daughter cells begin to form.
chromatin -	mass of DNA material and its related protein in the unbound state
	in the
	nucleus, chromosomes in their unbound form.
histone -	globular protein which DNA winds around to form chromatin
nucleosomes -	he units formed by the DNA and the globular proteins
nucleolus -	site within the nucleus for production of ribsomes
nuclear envelope -	membrane that surrounds the nucleus and functions in the
	communication of the cell nucleus with the cytoplasm.
equatorial plate -	center region of the cell dividing the cell, similar to the earths equator
poles -	opposite ends of a cell