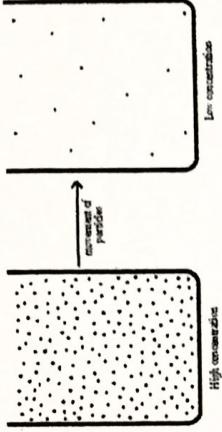


...

ANSWER KEY

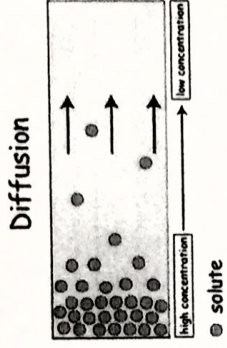
...

concentration



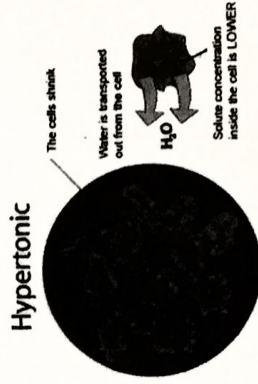
the amount of particles in an area

diffusion



the movement of particles from an area of high concentration to an area of low concentration

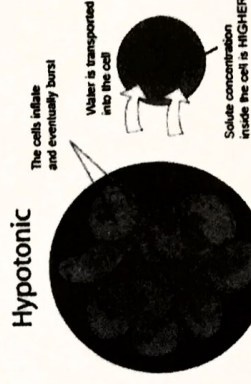
hypertonic



a solution that contains a higher concentration of solutes (remember when someone is hyper, they seem

to have MORE energy)

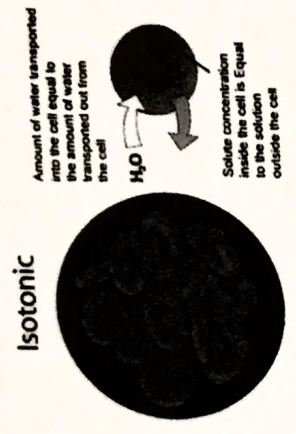
hypotonic



a solution that contains a lower concentration of solutes (remember hypo rhymes with low)

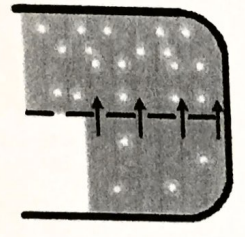
ANSWER KEY

isotonic



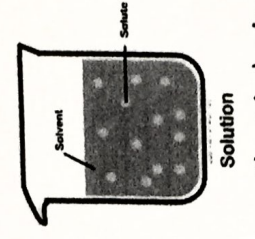
a solution that contains an equal concentration of solute and solvent

osmosis



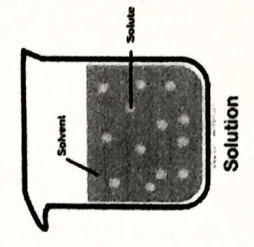
the diffusion of water from high concentration to low concentration

solute



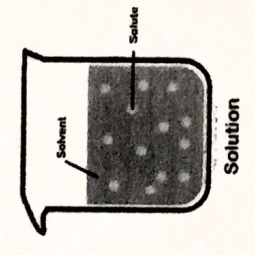
the substance that is being dissolved (salt/sugar)

solution



a mixture of solute and solvent

solvent



the liquid that is doing the dissolving (usually a liquid, but can sometimes be a solid or gas)

COMPARING PHOTOSYNTHESIS AND CELLULAR RESPIRATION

ANSWER KEY

ATTRIBUTE	PHOTOSYNTHESIS	CELLULAR RESPIRATION
FUNCTION	To provide food	To break down food for energy
REACTIONS REACTANTS	$6CO_2 + 6H_2O$	$6O_2 + C_6H_{12}O_6$
REACTANTS PRODUCTS	$6O_2 + C_6H_{12}O_6$	$6CO_2 + 6H_2O + \text{ENERGY}$
LOCATION	CHLOROPLAST	MITOCHONDRIA
EQUATION	$6CO_2 + 6H_2O \xrightarrow{\text{LIGHT}} C_6H_{12}O_6 + 6O_2$	$6O_2 + C_6H_{12}O_6 \rightarrow 6CO_2 + 6H_2O + \text{ENERGY}$
USED BY	Autotrophs (Plants, some Protists, & Bacteria)	Autotrophs & Heterotrophs

EXO

OUTSIDE OF -
EXAMPLE:
EXOCYTOSIS

HETERO

DIFFERENT -
EXAMPLE:
HETEROZYGOUS

HOMO

SAME -EXAMPLE:
HOMOZYGOUS

HYPER

EXCESS, LOTS OF -
EXAMPLE:
HYPERTONIC

HYPH

LOW -EXAMPLE:
HYPOTONIC

ASE

ENZYME -EXAMPLE:
AMYLASE

BI

TWO -EXAMPLE:
BIPEDAL

CO

TOGETHER -
EXAMPLE:
CODOMINANCE

DI

TWO -EXAMPLE:
DISACCHARIDE

ENDO

INSIDE OF -
EXAMPLE:
ENDOCYTOSIS

MACRO

LARGE -EXAMPLE:
MACROMOLECULE

MONO

ONE -EXAMPLE:
MONOMER

OSE

SUGAR -EXAMPLE:
CELLULOSE

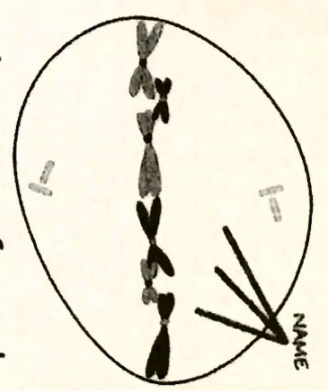
POLY

MANY -EXAMPLE:
POLYSACCHRIDE

SYN

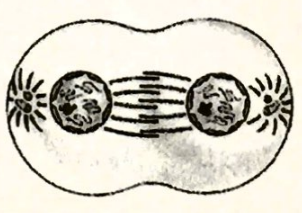
TO PUT TOGETHER,
ASSEMBLE -EXAMPLE:
SYNTHESIS

Spindle Fibers



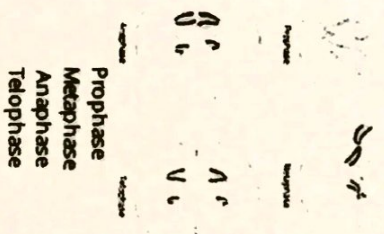
A football shaped structure formed of microtubules and associated protein

Telophase

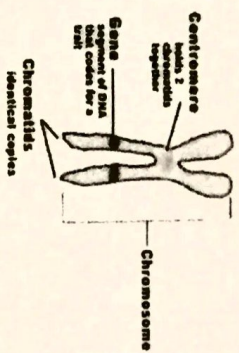


The fourth and final stage of mitosis, in which two identical nuclei are forming, the cell begins to pinch inward and the spindle fibers disappear.

What are the four stages of mitosis?

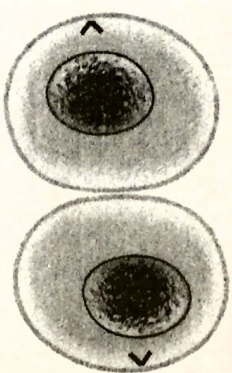


Chromosomes



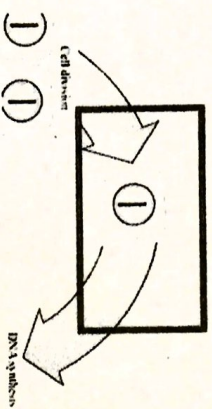
A cellular structure carrying genetic material, found in the nucleus of eukaryotic cells.

Cytokinesis



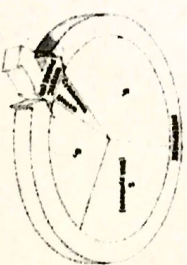
Division of cytoplasm and its contents

G1 Phase



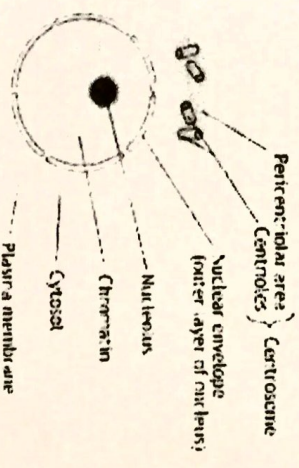
The first growth stage of interphase in which cell grows and performs its normal functions. It is also the time in which organelles get copied.

G2 Phase



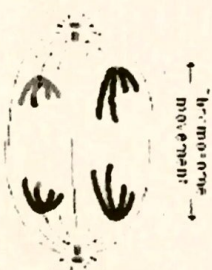
The second growth phase of the cell cycle. The cell grows more and stores energy in preparation for cell division (mitosis)

Interphase



A period during which the cell grows, copies its organelles and DNA, and stores energy in preparation for division

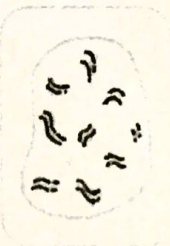
Anaphase



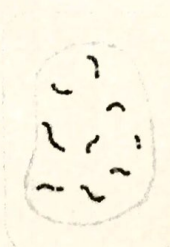
The third phase of mitosis, the chromatids of each chromosome separate/ split at the centromere and

Source: APADP, in: Anaphase

Body Cells



Somatic Cell



Gamete Cell

Any cells in the body other than reproductive cells

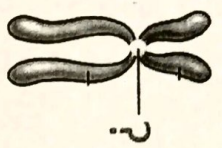
Cell Cycle



THE CELL CYCLE

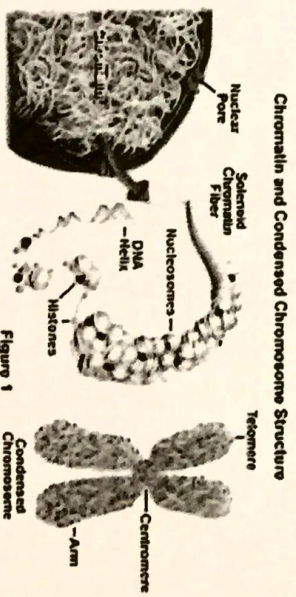
An ordered sequence of events in the life of a cell

Centromere



Area where the two copies of a chromosome (sister chromatids) are attached.

Chromatin



Chromatin and Condensed Chromosome Structure

Figure 1

Combination of DNA and protein in nucleus.