

HYPOTHESIS

Y-AXIS

OBSERVATION

LEGEND

INDEPENDENT
VARIABLE

DATA

CONTROL

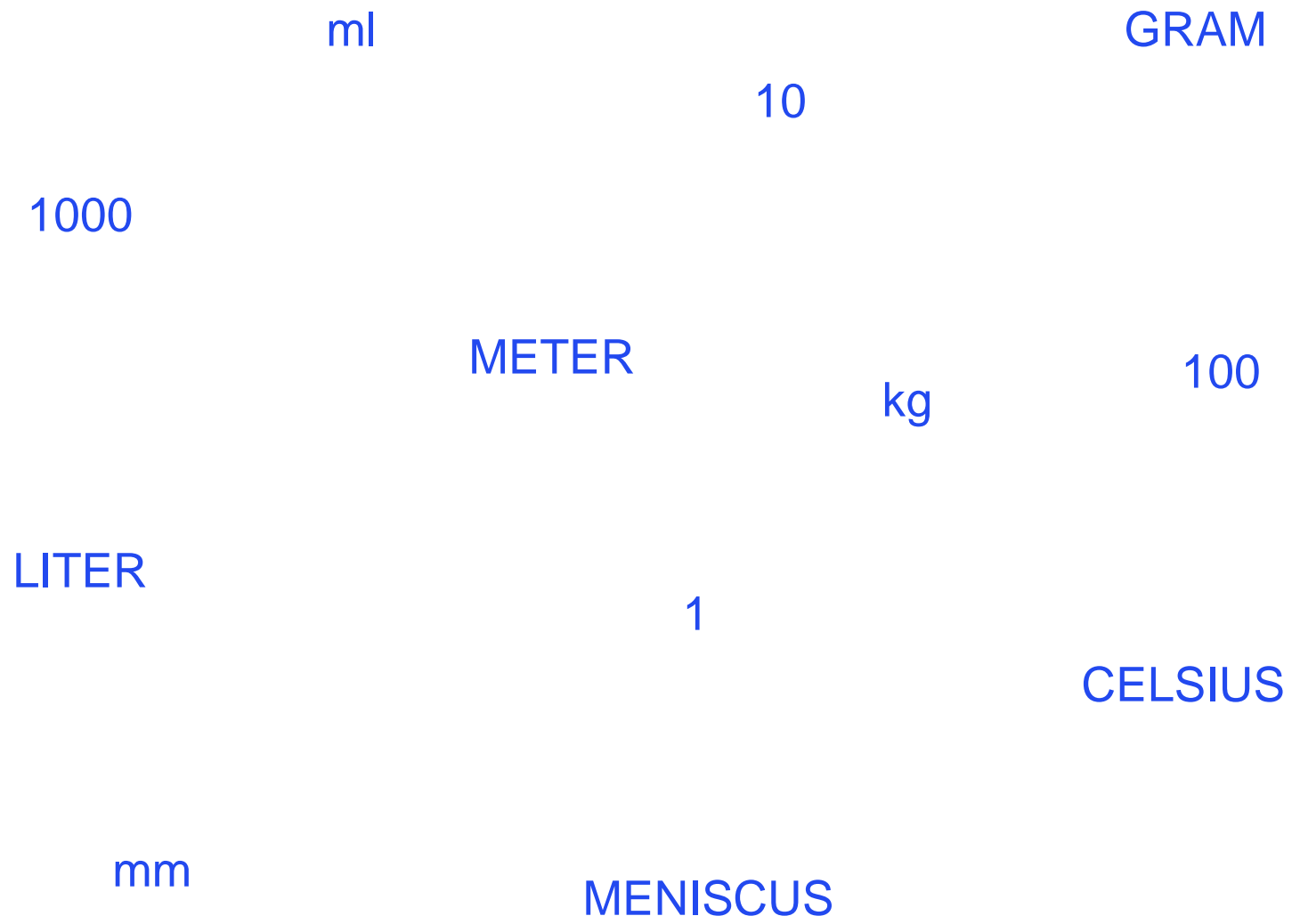
CONSTANTS

THEORY

CONTROLLED
VARIABLE

DEPENDENT
VARIABLE

X-AXIS



ELECTRON

ACIDIC

NEUTRON

OH⁻

SOLUTE

POLAR

ADHESIVE

H⁺

1-14

SOLUTION

NEUTRAL

COHESIVE

ISOTOPE

pH

PROTON

MOLECULE

BUFFER

SOLVENT

BASIC

POLYPEPTIDE

MONOSACCHARIDE

MONOMER

DISACCHARIDE

GLYCOGEN

LIPID

PROTEIN

GLYCEROL &
FATTY ACIDS

NUCLEIC
ACIDS

GLUCOSE

AMINO
ACIDS

POLYSACCHARIDE

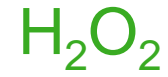
PEPTIDE
BOND

CARBOHYDRATE

NUCLEOTIDE

POLYMER

REACTANT



PRODUCT

CATALASE

ENZYME

ENZYME
SUBSTRATE
COMPLEX

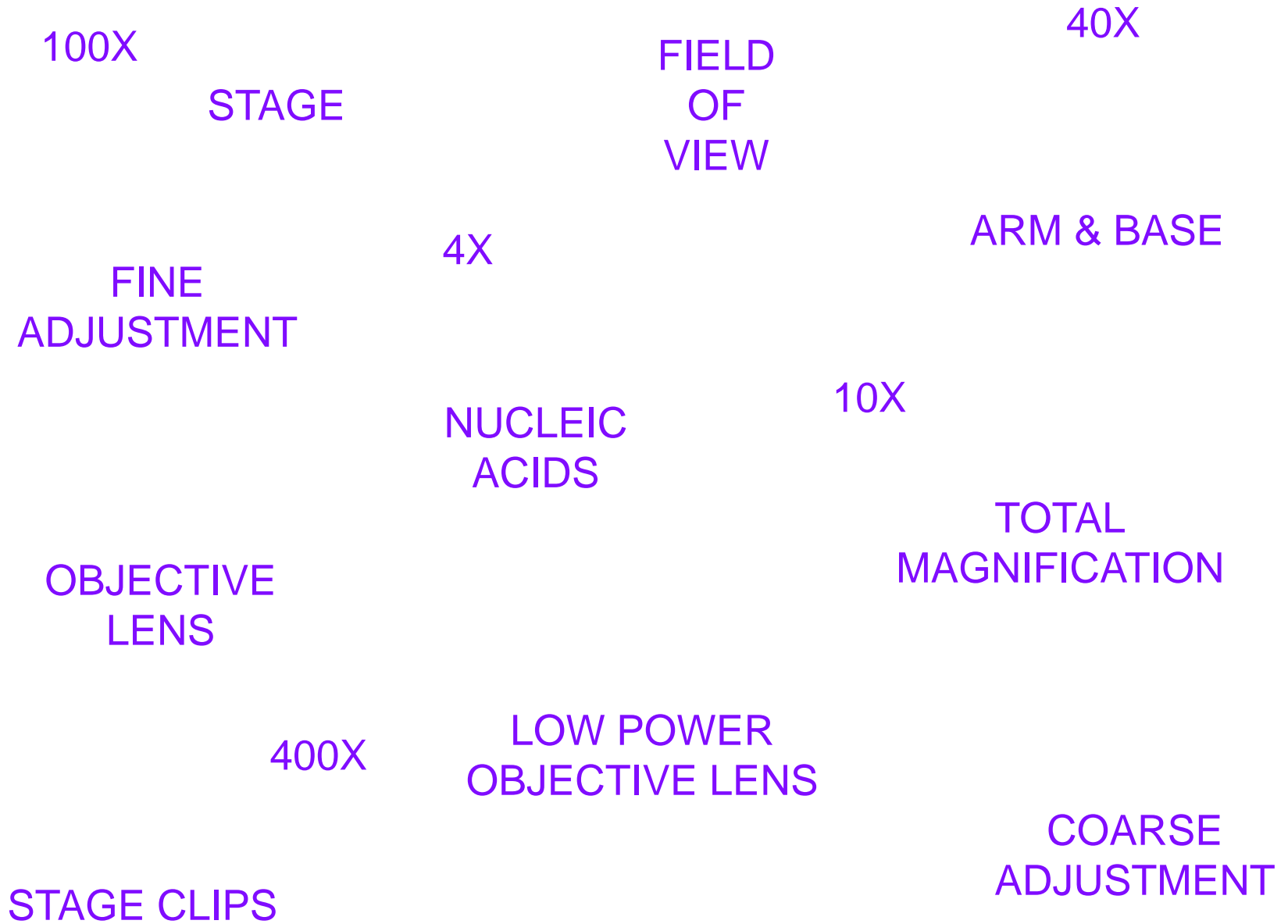
CATALYST

SUBSTRATE

ACTIVE
SITE

LIVER
& BLOOD

ACTIVATION
ENERGY



CELL

CHROMOSOMES

NUCLEUS

ROUGH
ENDOPLASMIC
RETICULUM

EUKARYOTE

GOLGI
APPARATUS

CYTOPLASM

MITOCHONDRIA

LYSOSOME

PROKARYOTE

CENTRIOLE

CAPSULE

CELL WALL

NUCLEOLUS

ORGANELLE

VACUOLE

RIBOSOME

FLAGELLA

CHLOROPLAST

CELL
MEMBRANE

CELL
MEMBRANE

SEMI
PERMEABLE

HYPERTONIC

ISOTONIC

DIFFUSION

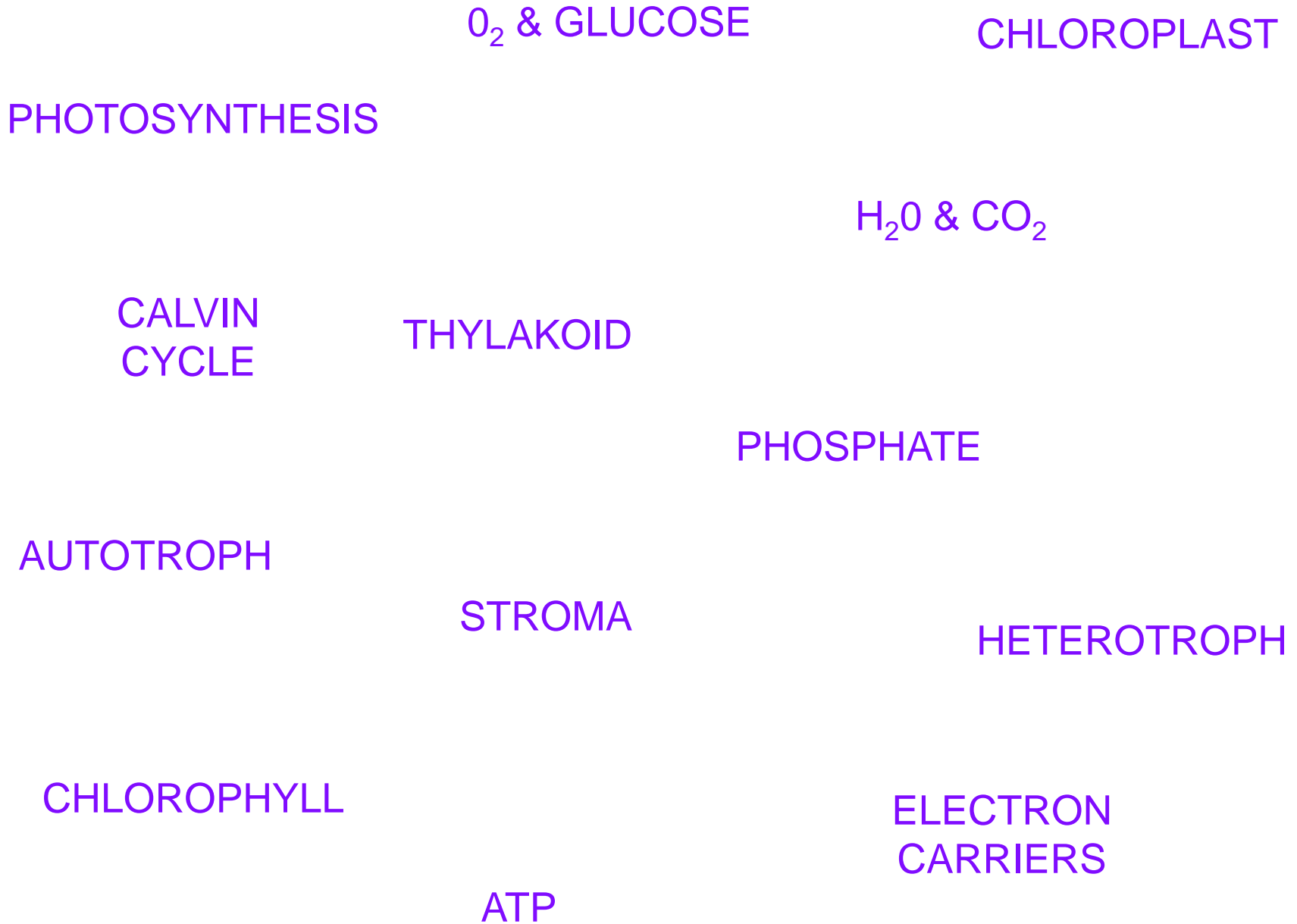
OSMOSIS

ACTIVE
TRANSPORT

LIPID
BILAYER

EQUILIBRIUM

HYPOTONIC



MATRIX

GLUCOSE

MITOCHONDRIA



ANAEROBIC

KREBS
CYCLE

CRISTAE

CELLULAR
RESPIRATION

PYRUVIC
ACID

ENERGY



ELECTRON
TRANSPORT
CHAIN

NAD⁺/NADH

GLYCOLYSIS

AEROBIC

FOOD CHAIN

DECOMPOSERS

SYMBIOSIS

AUTOTROPHS

BIOTIC
FACTORS

HETEROTROPHS

PREDATION

SPECIES

FOOD WEB

OMNIVORES

PARASITISM

ABIOTIC
FACTORS

COMMUNITY

POPULATION

NICHE

MITOSIS

PROPHASE

SPINDLE

METAPHASE

INTERPHASE

G1 PHASE

CENTRIOLES

G2 PHASE

SISTER CHROMATIDS

CYTOKINESIS

ANAPHASE

S PHASE

CANCER

DNA

NUCLEAR ENVELOPE

TELOPHASE

CHROMOSOMES

CYTOPLASM

HOMOLOGOUS
CHROMOSOMES

REPRODUCTIVE
ORGANS

SPINDLE
FIBERS

POLAR
BODIES

SPERM
CELLS

80

DIPLOID

NUCLEUS

CROSSING
OVER

MEIOSIS

EGG
CELLS

SISTER
CHROMATIDS

SOMATIC CELLS

40

HAPLOID

PUNNETT
SQUARE

WATSON & CRICK

GREGOR MENDEL

PROBABILITY

TRAIT

CROSS
POLLINATION

GAMETES

GENES

ROSALIND
FRANKLIN

HOMOZYGOUS

HETEROZYGOUS

PHENOTYPE

ALLELES

ADENINE

PHOSPHATE

DNA
BACKBONE

DEOXYRIBOSE
SUGAR

NITROGENOUS
BASES

CYTOSINE

GUANINE

SEMI
CONSERVATIVE

URACIL

DOUBLE
HELIX

RIBOSE
SUGAR

THYMINE

DNA
TEMPLATE

CYTOPLASM

NUCLEUS

BASE
PAIRING

REPLICATION
BUBBLE

POLYMERASE

HISTONE

UNWIND
& UNZIP

DNA
REPLICATION

REPLICATION
FORK

RIBOSOME

A T G C

HYDROGEN
BOND

MUTATION

rRNA

TRANSLATION

mRNA

CODON

NUCLEOTIDE

BLUEPRINT

tRNA

GENOTYPE

DNA

TRANSCRIPTION

ANTICODON

CENTRAL
DOGMA

INSERTION
MUTATION

AMINO ACIDS

START
CODON

PROBABILITY

PROTEIN
CHAIN

NEUTRAL

DELETION
MUTATION

READING
FRAME

STOP CODON

FRAMESHIFT

MUTATION

SUBSTITUTION
MUTATION

ALLELES

FOSSIL

EVOLUTION

FITNESS

RELATIVE
DATING

MILLIONS

ADAPTATION

GALAPAGOS

DESCENT WITH
MODIFICATION

THEORY

THOUSANDS

NATURAL
SELECTION

H.M.S.BEAGLE

ABSOLUTE
DATING

SPECIES

COMMON
DESCENT

VARIATION

ON THE ORIGIN
OF SPECIES

WALLACE

HOMOLOGOUS
STRUCTURES

LAMARK

ARTIFICIAL
SELECTION

MALTHUS

DNA

LYELL

SURVIVAL
OF THE
FITTEST

STRUGGLE FOR
EXISTENCE

HALF-LIFE

VESTIGIAL
ORGANS

HUTTON

DARWIN

MIMICRY

GENE SHUFFLING

TEMPORAL
ISOLATION

SINGLE-GENE
TRAIT

RELATIVE
FREQUENCY

CONCEALING
COLORATION

TWO
PHENOTYPES

SPECIES

POLYGENIC
TRAIT

DISRUPTIVE
COLORATION

GENE POOL

COUNTER
SHADING

MORE THAN TWO
PHENOTYPES

DISGUISES

SPECIATION

DIRECTIONAL
SELECTION

PALEONTOLOGIST

FOUNDER
EFFECT

STABILIZING
SELECTION

REPRODUCTIVE
ISOLATION

TEMPORAL
ISOLATION

GENETIC
EQUILIBRIUM

GEOGRAPHIC
ISOLATION

EXTINCT

GENETIC
DRIFT

BEHAVIORAL
ISOLATION

DISRUPTIVE
SELECTION

NEURONS

SYNAPSE

AXON

ADRENAL
GLAND

PANCREAS

PUBERTY

PITUITARY

CEREBRUM

HORMONES

SENSORY
NEURONS

CEREBELLUM

HOMEOSTASIS

HYPOTHALAMUS

BLOOD

RESTING
POTENTIAL

NEUROTRANSMITTER

ENDOCRINE
SYSTEM

ADRENALINE

ACTION
POTENTIAL

THRESHOLD

PITUITARY

ADRENAL
GLAND

REFLEX ARC

NERVE
IMPULSE

POSITIVE
FEEDBACK
LOOP

THYROID

MOTOR
NEURON

SENSORY
NEURON

INTERNEURON

DENDRITES

PARATHYROID

NODES

NEGATIVE
FEEDBACK
LOOP

PERIPHERAL
NERVOUS
SYSTEM

CENTRAL
NERVOUS
SYSTEM

HYPOTHALAMUS

RESTING
POTENTIAL

NEUROTRANSMITTER

AXON TERMINAL

ACTION
POTENTIAL

MYELIN
SHEATH

THRESHOLD

NODES OF
RANVIER

REFLEX

NERVE
IMPULSE

SYNAPSE

NEURONS

AXON

SODIUM
IONS

SCHWANN CELLS

SIGHT
SMELL
TASTE

CEREBRUM

SENSORY
NEURONS

CEREBELLUM

HOMEOSTASIS

POSITIVE
FEEDBACK
LOOP

MOTOR
NEURON

SENSORY
NEURON

DENDRITES

INTERNEURON

NERVES

NEGATIVE
FEEDBACK
LOOP

PERIPHERAL
NERVOUS
SYSTEM

CENTRAL
NERVOUS
SYSTEM

DISEASE

THIRD LINE
OF DEFENSE

VIRUS

FEVER

SKIN

INFLAMMATION

PHYSICAL CONTACT

FIRST LINE
OF DEFENSE

PATHOGEN

SECOND LINE
OF DEFENSE

INTEFERON

BACTERIA

ANTIGEN

ACTIVE
IMMUNITY

AIDS

HUMORAL
IMMUNITY

PHAGOCYTES

ANTIGEN
BINDING SITE

HIV

VACCINATION

STOMACH
ACID

REJECTION

PASSIVE
IMMUNITY

ANTIBODY

CELL-MEDIATED
IMMUNITY

SPECIFIC
DEFENSE

B-CELLS

ASTHMA

ALLERGY

PLASMA
CELLS

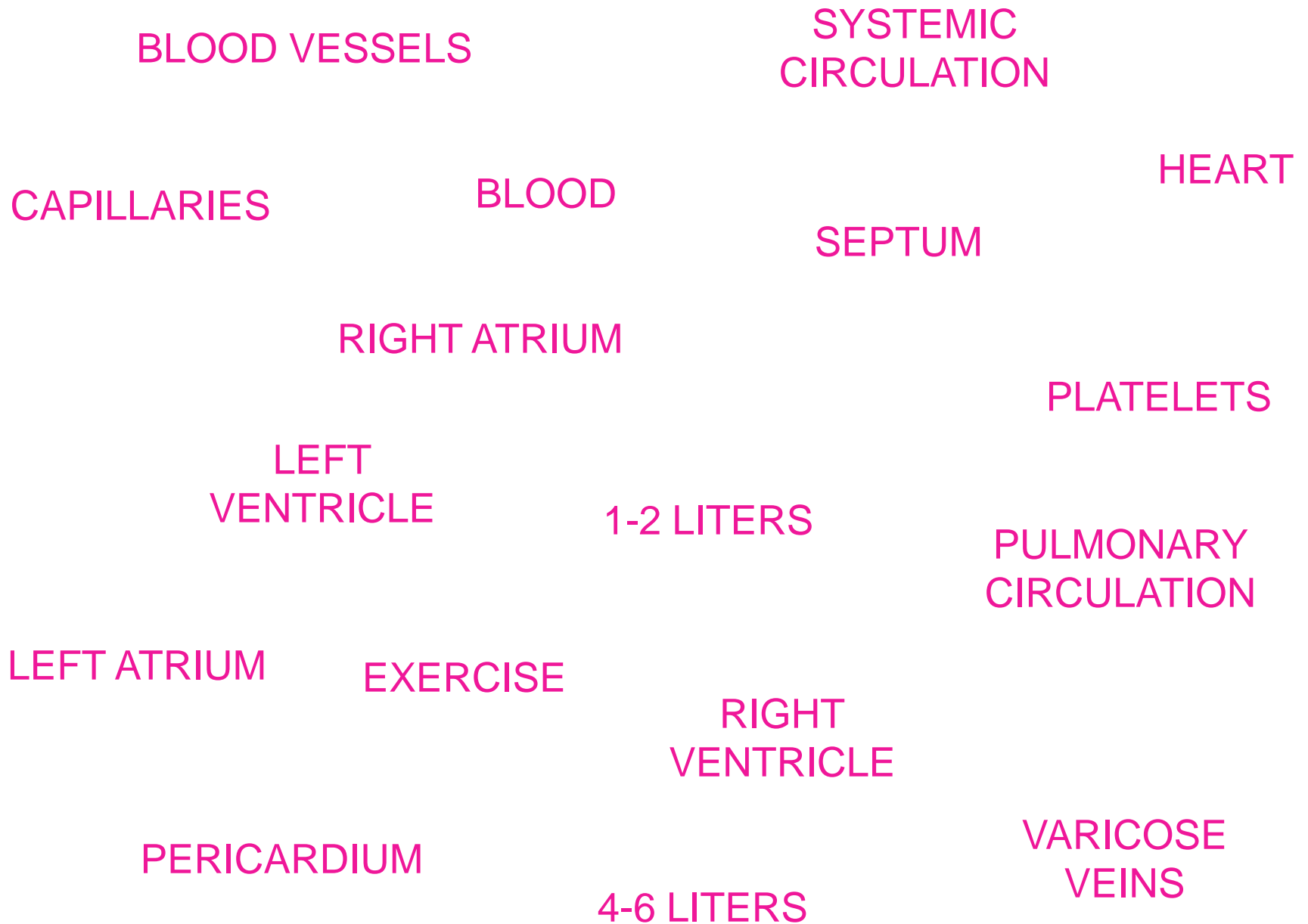
NON-SPECIFIC
DEFENSE

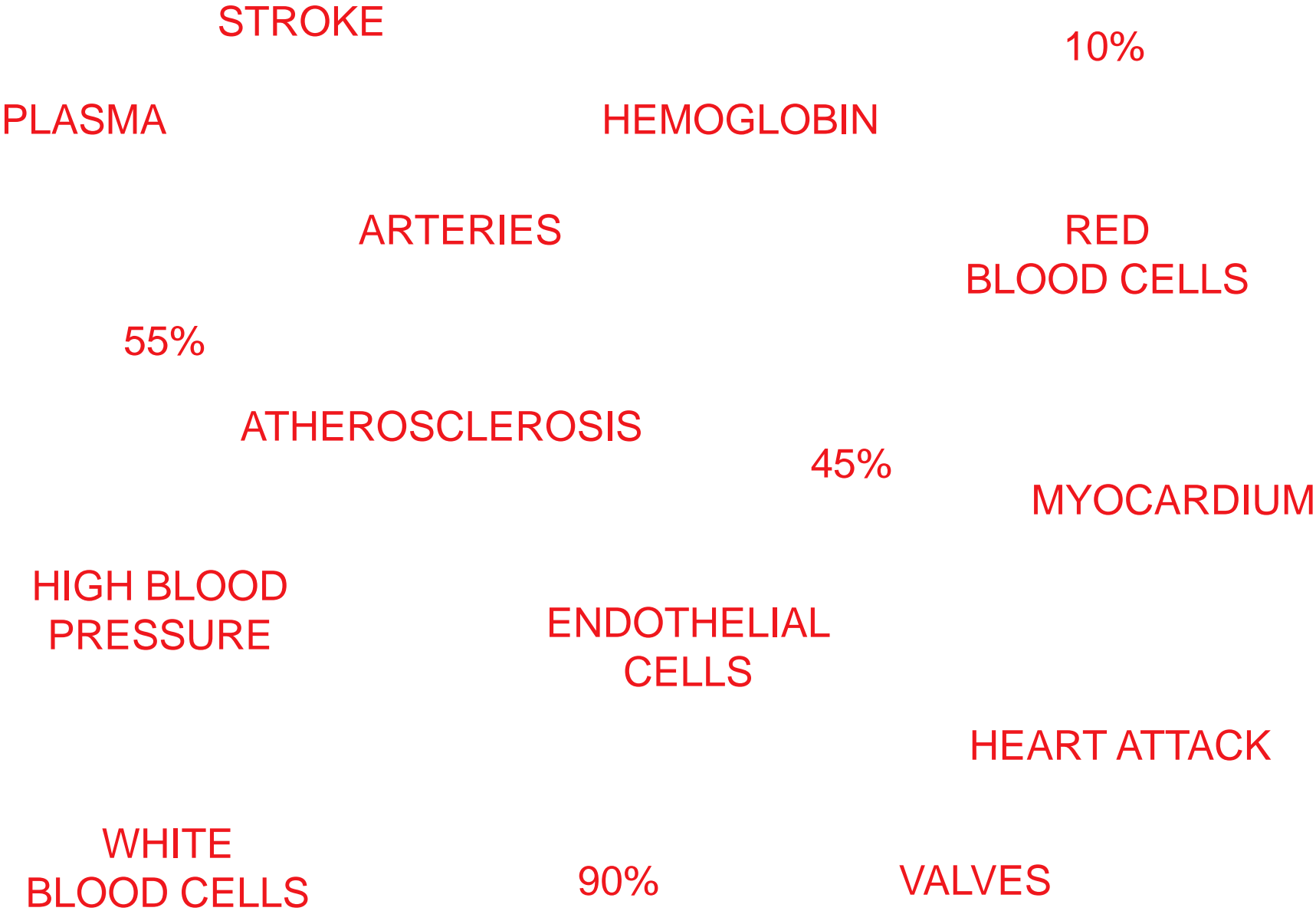
T-CELLS

MEMORY CELLS

ANTIBIOTICS

HELPER
T CELLS





HELIUM

CARBON
DIOXIDE

NOSE

CARBON
MONOXIDE

OXYGEN

PHARYNX

CEREBELLUM

CILIA

MEDULLA
OBLONGATA

BRONCHIOLES

ALVEOLI

TRACHEA

EPIGLOTTIS

LARYNX

MUCUS

BRONCHUS

BRONCHITIS

SINOATRIAL
NODE

FILTER
PARTICLES

RESPIRATION

LUNGS

HEMOPHILIA

PULMONARY
ARTERY

MITOCHONDRIA

INHALATION

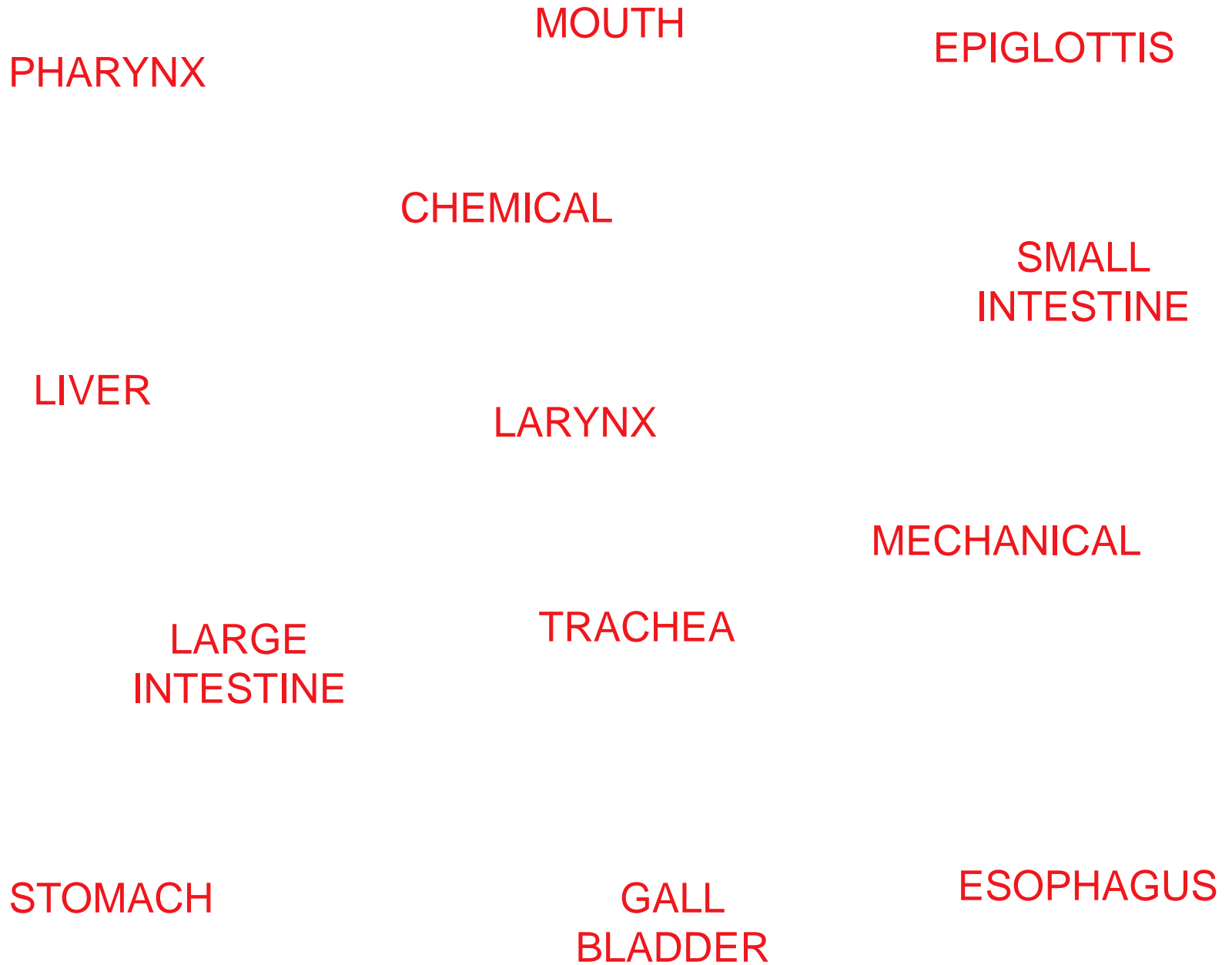
EXHALATION

PLASMA

NICOTINE

PULMONARY
CIRCULATION

DIAPHRAGM



BACTERIA

PEPSIN

VILLI

CHYME

PANCREAS

ILEUM

DUODENUM

WATER

AMYLASE

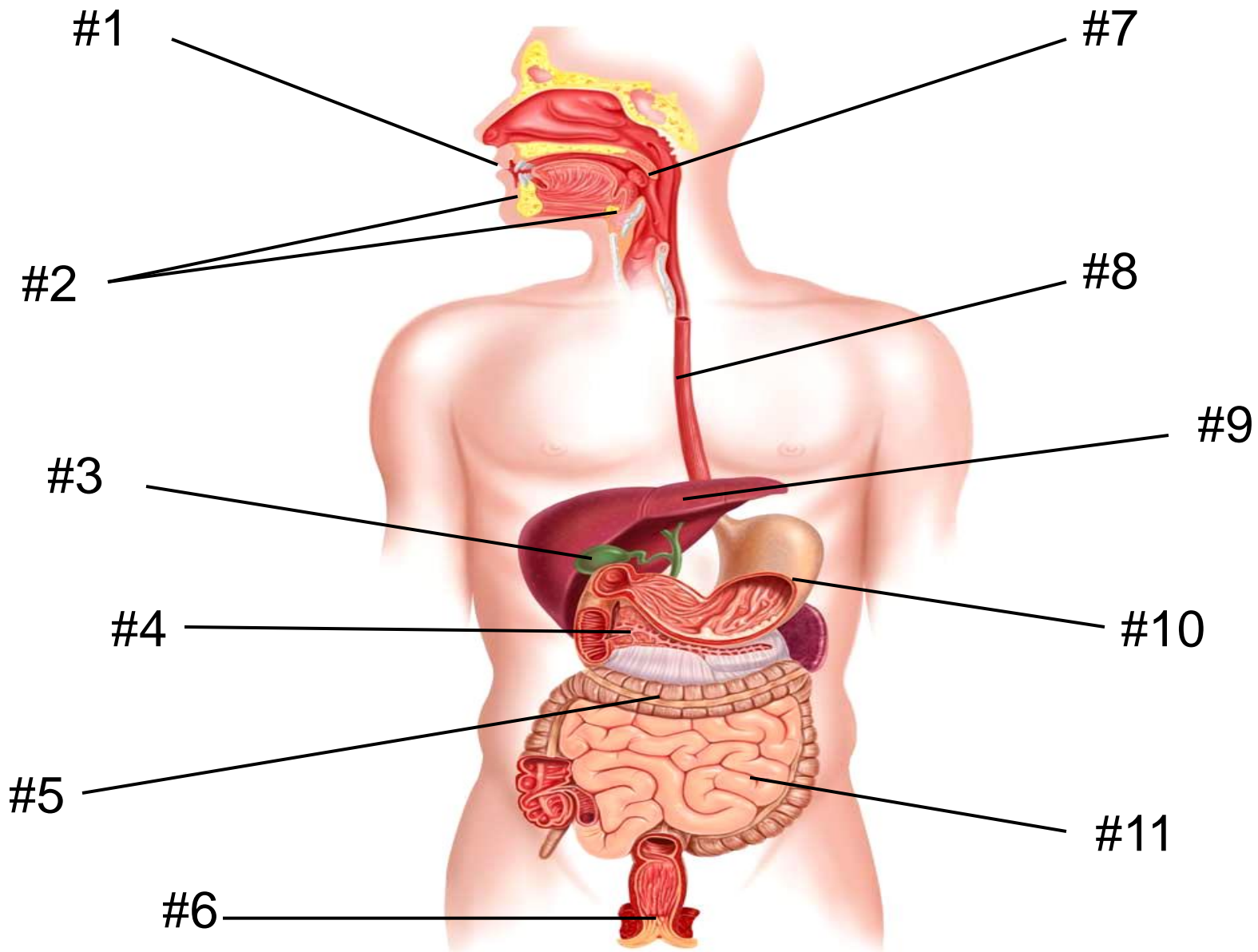
PYLORIC
VALVE

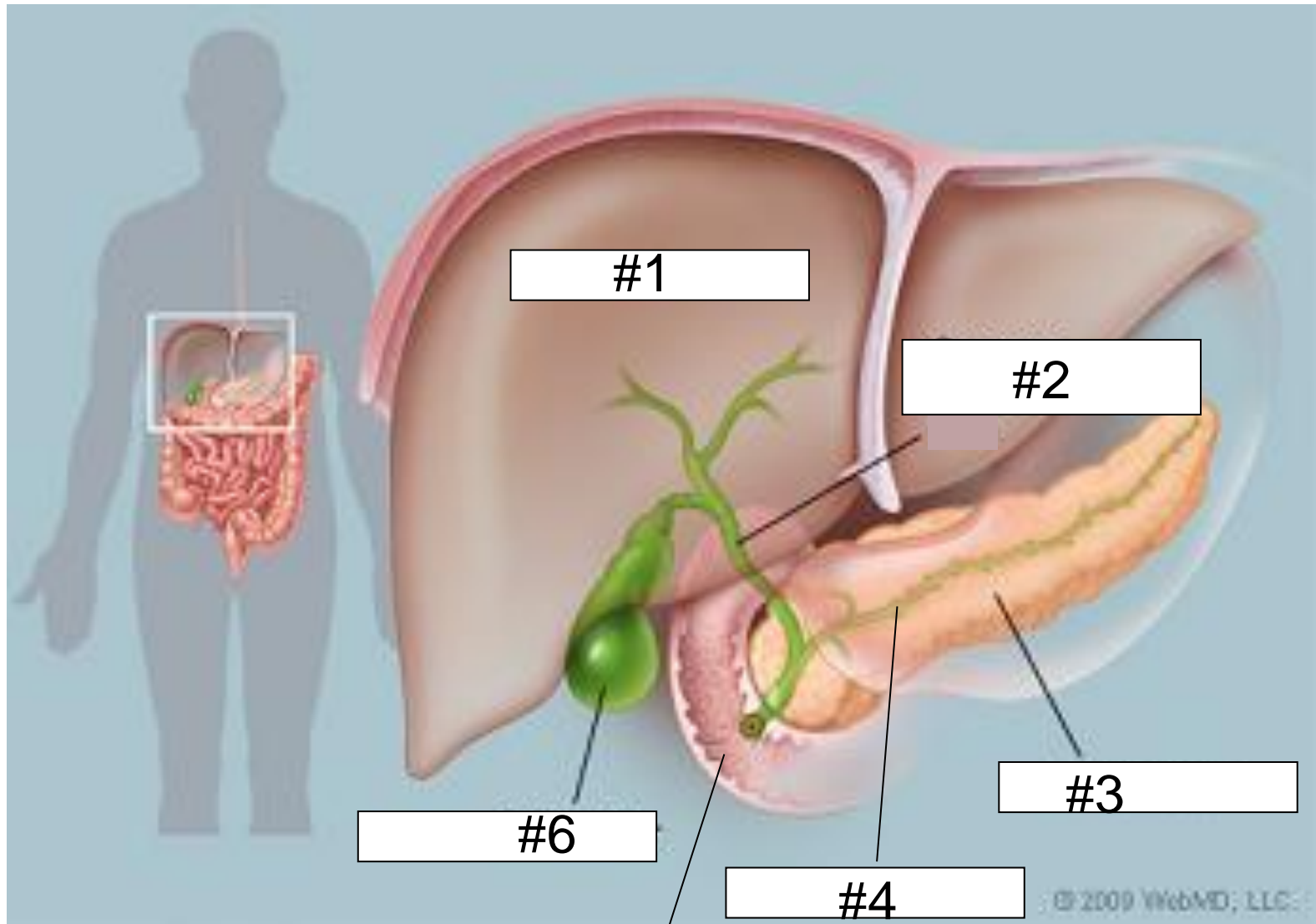
BOLUS

HEARTBURN

BILE

NUTRIENTS





SUGARS

VITAMINS

UNSATURATED

SATURATED

WATER

PROTEIN

FIBER

CARBOHYDRATES

MINERALS

WATER

Calorie

calorie

NUTRIENTS

ESSENTIAL
AMINOACIDS

FAT

SODIUM

IRON

CALCIUM

WATER
SOLUBLE

6

FOOD
PYRAMID

HIGH TO LOW

FAT
SOLUBLE

VITAMIN D

ENERGY

8

VITAMIN K

LOW TO HIGH

4

FOOD
LABEL

BLADDER

RENAL
VEINS

TRANSPLANT

LOOP OF
HENLE

KIDNEYS

URETHRA

FILTRATION

URETER

HOMEOSTASIS

RENAL
ARTERY

GLOMERULUS

BLOOD PH

BLOOD

DIALYSIS

EXCRETION

KIDNEY
STONES

COMPOSITION
OF BLOOD

MINERALS

WASTE

REABSORPTION

NEPRON

URINE

