

FAST TALK

AP / IB BIOLOGY — MOLECULAR BIOLOGY & BIOCHEMISTRY

54 double-sided cards · every card verified to have 2+ valid answers

HOW TO PLAY

1. Draw a card and read the CLUE side aloud — a category with many answers.
2. Flip the card to reveal the FORMAT — the twist that narrows it down.
3. Race to shout an answer that fits BOTH sides. First correct answer wins the card. Most cards at the end wins the game.

Example: “A molecule transported across a membrane” + “A 3-letter answer”
→ CO₂! Same clue with “Includes the letter E” → glucose.

HOW TO PRINT & CUT

- Print double-sided, flipping on the LONG edge (the usual default).
- Back pages are pre-mirrored so fronts and backs line up after cutting.
- Print ONE test sheet first and hold it to the light to check alignment.
- Cut along the grey guide lines — 9 cards per sheet.

HOUSE RULES & VARIATIONS

- Letter counts ignore spaces and count numbers (CO₂ = 3).
- Justify it: the winner must explain why their answer fits both sides.
- No repeats: an answer used once is dead for the rest of the game.
- Steal: a wrong answer passes the card to the other team.

The answer key for every card in this deck is at the back of this file.

**Includes the
letter R**

**Includes the
letter C**

**More than 6
letters**

**A 12-letter
answer**

**Includes the
letter D**

**Includes the
letter O**

**A 4-letter
answer**

**Includes the
letter A**

**Includes the
letter L**

**An example of a
protein**

**An example of a
lipid**

**A level of
protein
structure or its
feature**

**A component of
a nucleotide**

**A level of
protein
structure or its
feature**

**A chemical
bond found in
living things**

**A reaction that
builds or breaks
molecules**

**A sugar found
in living things**

**A term related
to acids, bases,
or pH**

**Includes the
letter C**

**Fewer than 7
letters**

**Includes the
letter G**

**A 8-letter
answer**

**A multi-word
answer**

**Starts with a
vowel**

**Includes the
letter E**

**Includes the
letter H**

**Includes the
letter S**

**A chemical
bond found in
living things**

**Something
hydrophobic
(repels water)**

**A level of
protein
structure or its
feature**

**A term related
to acids, bases,
or pH**

**A monomer
(building block)
of a
macromolecule**

**An example of a
carbohydrate**

**A component of
a nucleotide**

**Something that
can affect
enzyme activity**

**Something that
can affect
enzyme activity**

**Starts with a
consonant**

**Includes the
letter I**

**Includes the
letter L**

**A 3-letter
answer**

**A 10-letter
answer**

**Includes the
letter U**

**Includes the
letter O**

**More than 10
letters**

**Includes the
letter D**

**An example of a
protein**

**A word from the
topic of how
enzymes work**

**A nitrogenous
base**

**A nitrogenous
base**

**A word from the
topic of how
enzymes work**

**An example of a
lipid**

**A polymer
made of
repeating units**

**Something
hydrophobic
(repels water)**

**An example of a
carbohydrate**

**More than 8
letters**

**Ends in the
letter E**

**A 3-letter
answer**

**A 7-letter
answer**

A single word

**A 12-letter
answer**

**Ends in the
letter E**

**A 9-letter
answer**

**A 7-letter
answer**

**Something
hydrophobic
(repels water)**

**A monomer
(building block)
of a
macromolecule**

**A term related
to acids, bases,
or pH**

**An example of a
lipid**

**A word from the
topic of how
enzymes work**

**An example of a
protein**

**A nitrogenous
base**

**A reaction that
builds or breaks
molecules**

**A polymer
made of
repeating units**

**Exactly two
words**

**A multi-word
answer**

**More than 6
letters**

**Includes the
letter M**

**Ends in –sis,
–tion, or –sion**

**Includes the
letter U**

A single word

**Includes the
letter H**

**A 6-letter
answer**

**Something
hydrophilic
(attracted to
water)**

**Something
hydrophilic
(attracted to
water)**

**Something
hydrophilic
(attracted to
water)**

**Something that
can affect
enzyme activity**

**A property or
behaviour of
water**

**A molecule
containing
nitrogen**

**A component of
a nucleotide**

**A polymer
made of
repeating units**

**An example of a
carbohydrate**

**Includes the
letter S**

**Includes the
letter L**

**Ends in the
letter S**

**Starts with a
vowel**

**Includes the
letter P**

**Fewer than 5
letters**

**Includes the
letter T**

**Includes the
letter N**

**Includes the
letter G**

**A reaction that
builds or breaks
molecules**

**A molecule
containing
nitrogen**

**A monomer
(building block)
of a
macromolecule**

**A molecule
containing
nitrogen**

**A property or
behaviour of
water**

**A chemical
bond found in
living things**

**A sugar found
in living things**

**A property or
behaviour of
water**

**A sugar found
in living things**

MOLECULAR BIOLOGY & BIOCHEMISTRY

Answer key — page 1 of 6 — answers satisfy BOTH the clue and the format

A level of protein structure or its feature

+ Includes the letter R

→ primary structure, secondary structure, tertiary structure, quaternary structure

An example of a lipid

+ Includes the letter C

→ cholesterol, triglyceride, fatty acid

An example of a protein

+ More than 6 letters

→ collagen, keratin, hemoglobin, insulin, antibody

A chemical bond found in living things

+ A 12-letter answer

→ hydrogen bond, covalent bond

A level of protein structure or its feature

+ Includes the letter D

→ secondary structure, beta pleated sheet

A component of a nucleotide

+ Includes the letter O

→ phosphate, deoxyribose, ribose, cytosine

A term related to acids, bases, or pH

+ A 4-letter answer

→ acid, base

A sugar found in living things

+ Includes the letter A

→ lactose, galactose, maltose

A reaction that builds or breaks molecules

+ Includes the letter L

→ hydrolysis, catalysis, neutralisation

A level of protein structure or its feature

+ Includes the letter C

→ primary structure, secondary structure, tertiary structure, quaternary structure

MOLECULAR BIOLOGY & BIOCHEMISTRY

Answer key — page 2 of 6 — answers satisfy BOTH the clue and the format

Something hydrophobic (repels water)

+ Fewer than 7 letters

→ lipid, oil, wax

A chemical bond found in living things

+ Includes the letter G

→ hydrogen bond, glycosidic bond, disulfide bridge

An example of a carbohydrate

+ A 8-letter answer

→ fructose, glycogen

A monomer (building block) of a macromolecule

+ A multi-word answer

→ amino acid, fatty acid

A term related to acids, bases, or pH

+ Starts with a vowel

→ acid, alkaline

Something that can affect enzyme activity

+ Includes the letter E

→ temperature, substrate concentration, heavy metal, heat

Something that can affect enzyme activity

+ Includes the letter H

→ pH, inhibitor, heavy metal, heat

A component of a nucleotide

+ Includes the letter S

→ phosphate, deoxyribose, ribose, cytosine, base

A nitrogenous base

+ Starts with a consonant

→ thymine, guanine, cytosine

A word from the topic of how enzymes work

+ Includes the letter I

→ active site, activation energy, induced fit, denaturation, specificity

MOLECULAR BIOLOGY & BIOCHEMISTRY

Answer key — page 3 of 6 — answers satisfy BOTH the clue and the format

An example of a protein

+ Includes the letter L

→ collagen, hemoglobin, insulin

An example of a lipid

+ A 3-letter answer

→ wax, oil

A word from the topic of how enzymes work

+ A 10-letter answer

→ active site, induced fit

A nitrogenous base

+ Includes the letter U

→ guanine, uracil

An example of a carbohydrate

+ Includes the letter O

→ glucose, fructose, sucrose, lactose, cellulose, glycogen, maltose, ribose

Something hydrophobic (repels water)

+ More than 10 letters

→ cholesterol, fatty acid tail, triglyceride

A polymer made of repeating units

+ Includes the letter D

→ DNA, polypeptide, polysaccharide

A term related to acids, bases, or pH

+ More than 8 letters

→ hydrogen ion, hydroxide ion, neutralisation

A monomer (building block) of a macromolecule

+ Ends in the letter E

→ glucose, nucleotide, monosaccharide

Something hydrophobic (repels water)

+ A 3-letter answer

→ oil, wax

MOLECULAR BIOLOGY & BIOCHEMISTRY

Answer key — page 4 of 6 — answers satisfy BOTH the clue and the format

An example of a protein

+ A 7-letter answer

→ keratin, insulin

A word from the topic of how enzymes work

+ A single word

→ substrate, catalyst, denaturation, specificity

An example of a lipid

+ A 12-letter answer

→ phospholipid, triglyceride

A polymer made of repeating units

+ Ends in the letter E

→ cellulose, polypeptide, polysaccharide

A reaction that builds or breaks molecules

+ A 9-letter answer

→ oxidation, reduction, catalysis

A nitrogenous base

+ A 7-letter answer

→ adenine, thymine, guanine

Something hydrophilic (attracted to water)

+ Exactly two words

→ phosphate head, amino acid

Something hydrophilic (attracted to water)

+ A multi-word answer

→ phosphate head, amino acid

Something hydrophilic (attracted to water)

+ More than 6 letters

→ glucose, phosphate head, amino acid

A molecule containing nitrogen

+ Includes the letter M

→ amino acid, ammonia

MOLECULAR BIOLOGY & BIOCHEMISTRY

Answer key — page 5 of 6 — answers satisfy BOTH the clue and the format

A property or behaviour of water

+ Ends in -sis, -tion, or -sion

→ cohesion, adhesion, surface tension, capillary action

Something that can affect enzyme activity

+ Includes the letter U

→ temperature, substrate concentration

An example of a carbohydrate

+ A single word

→ glucose, fructose, sucrose, lactose, starch, cellulose, glycogen, maltose, ribose

A polymer made of repeating units

+ Includes the letter H

→ starch, polysaccharide

A component of a nucleotide

+ A 6-letter answer

→ ribose, uracil

A monomer (building block) of a macromolecule

+ Includes the letter S

→ glucose, monosaccharide

A molecule containing nitrogen

+ Includes the letter L

→ nucleotide, chlorophyll

A reaction that builds or breaks molecules

+ Ends in the letter S

→ hydrolysis, dehydration synthesis, catalysis

A chemical bond found in living things

+ Starts with a vowel

→ ionic bond, ester bond

A property or behaviour of water

+ Includes the letter P

→ polarity, capillary action, high specific heat

MOLECULAR BIOLOGY & BIOCHEMISTRY

Answer key — page 6 of 6 — answers satisfy BOTH the clue and the format

A molecule containing nitrogen

+ Fewer than 5 letters

→ DNA, RNA, urea

A sugar found in living things

+ Includes the letter T

→ fructose, lactose, galactose, maltose

A property or behaviour of water

+ Includes the letter N

→ cohesion, adhesion, surface tension, capillary action, solvent

A sugar found in living things

+ Includes the letter G

→ glucose, galactose