

FAST TALK

AP / IB BIOLOGY — GENETICS

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.

**Fewer than 5
letters**

**Includes the
letter O**

**Ends in the
letter N**

**A 8-letter
answer**

**Includes the
letter G**

**More than 6
letters**

**Exactly two
words**

**Ends in the
letter N**

**Includes the
letter D**

**A type of
mutation**

**A word
describing
chromosome
number
changes**

**A ratio or
probability from
a genetic cross**

**A tool or
technique used
in
biotechnology**

**A source of
genetic
variation**

**A word you'd
use in a genetic
cross**

**Something
Mendel studied
or described**

**Something that
happens during
meiosis**

**A molecule
involved in
gene
expression**

**Includes the
letter P**

**Includes the
letter N**

**A 11-letter
answer**

**A 6-letter
answer**

**A 4-letter
answer**

**Includes the
letter E**

**A 9-letter
answer**

**Includes the
letter O**

**Ends in –sis,
–tion, or –sion**

**Something
involving the X
or Y
chromosome**

**A tool or
technique used
in
biotechnology**

**A word
describing
allele
combinations**

**A word
describing
chromosome
number
changes**

**A molecule
involved in
gene
expression**

**A word you'd
use in a genetic
cross**

**Something that
happens during
meiosis**

**An enzyme or
protein used in
DNA processes**

**A step or site of
protein
synthesis**

**Starts with a
consonant**

**A multi-word
answer**

**Includes the
letter R**

**Includes the
letter M**

**A 8-letter
answer**

**Includes the
letter S**

**Includes the
letter T**

**Includes the
letter E**

**A 3-letter
answer**

**A three-letter or
short
abbreviation
used in
genetics**

**A genetic
disorder**

**Something that
happens during
meiosis**

**A pattern of
inheritance**

**A source of
genetic
variation**

**Something
Mendel studied
or described**

**A three-letter or
short
abbreviation
used in
genetics**

**A tool or
technique used
in
biotechnology**

**Something
Mendel studied
or described**

**Includes the
letter T**

**A 8-letter
answer**

**Ends in the
letter E**

**Includes the
letter I**

**Includes the
letter U**

A single word

**Includes the
letter M**

**Ends in the
letter S**

**A 10-letter
answer**

**Something you
might see on a
pedigree chart**

**A word
describing
allele
combinations**

**An enzyme or
protein used in
DNA processes**

**A type of
mutation**

**A pattern of
inheritance**

**A source of
genetic
variation**

**Something
involving the X
or Y
chromosome**

**A genetic
disorder**

**A structure
involved in
inheritance**

**Fewer than 7
letters**

**A 10-letter
answer**

**Includes the
letter R**

**Includes the
letter L**

**More than 8
letters**

**Fewer than 7
letters**

**More than 10
letters**

**Ends in the
letter S**

**A 6-letter
answer**

**A type of
mutation**

**Something you
might see on a
pedigree chart**

**A ratio or
probability from
a genetic cross**

**A molecule
involved in
gene
expression**

**Something
involving the X
or Y
chromosome**

**A word
describing
chromosome
number
changes**

**Something you
might see on a
pedigree chart**

**A word you'd
use in a genetic
cross**

**An enzyme or
protein used in
DNA processes**

**Starts with a
consonant**

**A 4-letter
answer**

**A 10-letter
answer**

**Includes the
letter H**

**Includes the
letter A**

**Ends in –sis,
–tion, or –sion**

**Includes the
letter D**

**Includes the
letter I**

**Includes the
letter C**

**A structure
involved in
inheritance**

**A three-letter or
short
abbreviation
used in
genetics**

**A ratio or
probability from
a genetic cross**

**A step or site of
protein
synthesis**

**A structure
involved in
inheritance**

**A genetic
disorder**

**A word
describing
allele
combinations**

**A step or site of
protein
synthesis**

**A pattern of
inheritance**

GENETICS

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

A ratio or probability from a genetic cross

+ Fewer than 5 letters

→ 3:1, 9:3:3:1, 1:1, 25%, 50%, 1:2:1

A word describing chromosome number changes

+ Includes the letter O

→ nondisjunction, aneuploidy, trisomy, monosomy, polyploidy, karyotype

A type of mutation

+ Ends in the letter N

→ insertion, deletion, substitution, silent mutation, nonsense mutation, missense mutation, duplica...

A word you'd use in a genetic cross

+ A 8-letter answer

→ genotype, dominant

A source of genetic variation

+ Includes the letter G

→ crossing over, gene flow

A tool or technique used in biotechnology

+ More than 6 letters

→ gel electrophoresis, restriction enzyme, cloning, genetic engineering, DNA sequencing, plasmid ve...

A molecule involved in gene expression

+ Exactly two words

→ RNA polymerase, amino acid

Something that happens during meiosis

+ Ends in the letter N

→ segregation, nondisjunction, recombination, reduction division

Something Mendel studied or described

+ Includes the letter D

→ law of independent assortment, dominant trait, hybrid cross

A word describing allele combinations

+ Includes the letter P

→ purebred, genotype

GENETICS

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

A tool or technique used in biotechnology

+ Includes the letter N

→ restriction enzyme, cloning, genetic engineering, DNA sequencing

Something involving the X or Y chromosome

+ A 11-letter answer

→ X chromosome, Y chromosome

A word you'd use in a genetic cross

+ A 6-letter answer

→ allele, hybrid

A molecule involved in gene expression

+ A 4-letter answer

→ mRNA, tRNA, rRNA

A word describing chromosome number changes

+ Includes the letter E

→ aneuploidy, karyotype

A step or site of protein synthesis

+ A 9-letter answer

→ anticodon, stop codon

An enzyme or protein used in DNA processes

+ Includes the letter O

→ DNA polymerase, RNA polymerase, restriction enzyme, histone

Something that happens during meiosis

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

→ segregation, nondisjunction, synapsis, recombination, reduction division

Something that happens during meiosis

+ Starts with a consonant

→ crossing over, segregation, nondisjunction, synapsis, recombination, reduction division

A genetic disorder

+ A multi-word answer

→ Down syndrome, cystic fibrosis, sickle cell anemia, Huntington's disease, color blindness, Turner...

GENETICS

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

A three-letter or short abbreviation used in genetics

+ Includes the letter R

→ RNA, PCR, mRNA, tRNA

Something Mendel studied or described

+ Includes the letter M

→ law of independent assortment, dominant trait

A source of genetic variation

+ A 8-letter answer

→ mutation, gene flow

A pattern of inheritance

+ Includes the letter S

→ sex linkage, multiple alleles, autosomal recessive, autosomal dominant

Something Mendel studied or described

+ Includes the letter T

→ pea plant, law of segregation, law of independent assortment, dominant trait, recessive trait, tr...

A tool or technique used in biotechnology

+ Includes the letter E

→ gel electrophoresis, restriction enzyme, genetic engineering, DNA sequencing, plasmid vector

A three-letter or short abbreviation used in genetics

+ A 3-letter answer

→ DNA, RNA, PCR, ATP, GMO

An enzyme or protein used in DNA processes

+ Includes the letter T

→ restriction enzyme, histone

A word describing allele combinations

+ A 8-letter answer

→ dominant, purebred, genotype

Something you might see on a pedigree chart

+ Ends in the letter E

→ circle, square, family line

GENETICS

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

A source of genetic variation

+ Includes the letter I

→ mutation, crossing over, independent assortment, random fertilisation, recombination

A pattern of inheritance

+ Includes the letter U

→ multiple alleles, autosomal recessive, autosomal dominant

A type of mutation

+ A single word

→ insertion, deletion, substitution, frameshift, duplication, inversion

A structure involved in inheritance

+ Includes the letter M

→ chromosome, centromere, chromatid, homologous pair, sex chromosome

A genetic disorder

+ Ends in the letter S

→ cystic fibrosis, color blindness

Something involving the X or Y chromosome

+ A 10-letter answer

→ sex linkage, hemophilia

A ratio or probability from a genetic cross

+ Fewer than 7 letters

→ 3:1, 9:3:3:1, 1:1, 25%, 50%, 1:2:1

Something you might see on a pedigree chart

+ A 10-letter answer

→ generation, family line

A type of mutation

+ Includes the letter R

→ insertion, frameshift, inversion

A word describing chromosome number changes

+ Includes the letter L

→ aneuploidy, polyploidy

GENETICS

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

Something involving the X or Y chromosome

+ **More than 8 letters**

→ sex linkage, color blindness, hemophilia, X chromosome, Y chromosome, sex determination, X-linked...

A molecule involved in gene expression

+ **Fewer than 7 letters**

→ mRNA, tRNA, rRNA, DNA, codon

An enzyme or protein used in DNA processes

+ **More than 10 letters**

→ DNA polymerase, RNA polymerase, restriction enzyme

A word you'd use in a genetic cross

+ **Ends in the letter S**

→ homozygous, heterozygous

Something you might see on a pedigree chart

+ **A 6-letter answer**

→ circle, square

A ratio or probability from a genetic cross

+ **Starts with a consonant**

→ 3:1, 9:3:3:1, 1:1, 25%, 50%, 1:2:1

A three-letter or short abbreviation used in genetics

+ **A 4-letter answer**

→ mRNA, tRNA

A structure involved in inheritance

+ **A 10-letter answer**

→ chromosome, centromere

A genetic disorder

+ **Includes the letter H**

→ hemophilia, Huntington's disease

A structure involved in inheritance

+ **Includes the letter A**

→ allele, chromatid, homologous pair, tetrad

GENETICS

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

A step or site of protein synthesis

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

→ transcription, translation

A pattern of inheritance

+ Includes the letter **D**

→ codominance, incomplete dominance, autosomal dominant

A step or site of protein synthesis

+ Includes the letter **I**

→ transcription, translation, ribosome, anticodon

A word describing allele combinations

+ Includes the letter **C**

→ recessive, carrier