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Vocabulary Builder Reference from...

Hortensia Jiménez Díaz: How Mendel's pea plants helped us understand genetics | TED Talk

https://www.ted.com/talks/hortensia_jimenez_diaz_how_mendel_s_pea_plants_helped_us_understand_genetics

All Words

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Session 1: Word List

inherit

v. to receive money, property, or a title from someone after they have died

synonym: obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

characteristic

n. a typical feature or quality that can identify, tell apart, or describe something or somebody

synonym: feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their **characteristic** taste and odor.

calculate

v. to judge or find out the amount or number of something by using mathematics

synonym: compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score

He couldn't **calculate** the actual value of the artwork.

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym : probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach

In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym : particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

trait

n. a particular feature of your nature

synonym : attribute, feature, quality

(1) chemical **trait**, (2) personality **traits**

Multiple genes may influence behavioral **traits** concurrently.

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

synonym : hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder

Understanding protein folding is a vital step in deciphering the **genetic** code.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym : illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

descendant

n. children or offspring of a specific person, plant, or animal

synonym : child, offspring, heir

(1) **descendant** of a pioneer, (2) third-generation **descendant**

Those warriors' **descendants** are still skilled archers.

monk

n. a member of a religious community of men living under vows of poverty, chastity, and obedience

synonym: friar, cleric, brother

(1) **monk** lifestyle, (2) cloistered **monk**

The ascetic **monk** spent his days in prayer and contemplation in the monastery.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

breed

v. to keep animals for producing offspring in a regulated manner

synonym: raise, multiply, reproduce

(1) **breed** horses, (2) **breed** suspicion

This animal **breeds** in northern latitudes.

pea

n. a small, round, green vegetable that grows in pods on a climbing plant and is eaten as a vegetable

synonym: legume, bean, pulse

(1) **pea** protein, (2) **pea** family

She shelled the **peas** and added them to the pot.

monastery

n. a building or complex of buildings in which members of a male religious community, called monks, live and worship

synonym: abbey, convent, friary

(1) **monastery** garden, (2) leave a **monastery**

This ancient **monastery** was founded in the 13th century and had a long history of religious devotion.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously

not known

synonym : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

principle

n. a fundamental law or truth that explains or controls how something happens or works

synonym : rule, creed, code

(1) **principle** of treatment, (2) **principle** in business

Efficiency isn't an essential **principle** here; fairness is.

classic

adj. judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type

synonym : definitive, traditional, typical

(1) a **classic** experiment, (2) Chinese **classic** literature

He displayed the **classic** symptoms of depression.

combine

v. to join or merge to form a single thing or group

synonym : coalesce, cohere, blend

(1) **combine** chemically with another substance,

(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

purebred

adj. belonging to a specific breed, type, or strain of animal, particularly a dog or horse, that has been selectively bred for specific traits over several generations

synonym : pedigreed, thoroughbred, pureblooded

(1) **purebred** dog, (2) **purebred** horse

The breeder assured us that our new puppy was **purebred** and came from a long line of champions.

seed

n. a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant

synonym :

germ, kernel, ovule

(1) a **seed** coat, (2) **seed** money

He planted the **seed** in the soil and waited for it to sprout.

dominant

adj. more important, influential, or easy to notice than anything else of the same type

synonym: chief, predominant, prevailing

(1) achieve a **dominant** share, (2) **dominant** force

Her company soon won a **dominant** market share.

hybrid

adj. composed of different elements or mixed characters

synonym: blended, mixed, combined

(1) new **hybrid** system, (2) an interspecific **hybrid**

The mule is a **hybrid** between a male donkey and a female horse.

fertilize

v. to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well

synonym: pollinate, inseminate, enrich

(1) **fertilize** the soil, (2) **fertilize** the female egg

The couple decided to use the non-husband sperm to **fertilize** a wife.

recessive

adj. of or relating to the state of the economy declines; (of a gene) controlling a characteristic that is expressed only when a dominant allele is not present

synonym: latent, dormant, hidden

(1) **recessive** allele, (2) **recessive** mutant

The **recessive** gene for blue eyes is only expressed when both parents carry the gene.

infer

v. to form an opinion or conclude that something is true based on existing facts

synonym: guess, deduce, assume

(1) **infer** quality from price, (2) **infer** the possibility

Animal desire and preference are always **inferred** from their behavior.

allele

n. any of the alternative forms of a gene that can occupy a given chromosomal location

synonym: gene variant, genetic variant

(1) the **allele** in a pair, (2) inherit one **allele**

Environmental factors can also influence the expression of **alleles**, a phenomenon known as epigenetics.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

variation

n. the act or state of changing; a difference or change in the way something is done, made or said

synonym: fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

homozygous

adj. possessing identical alleles for a particular gene, having inherited the same version of the gene from both parents

synonym: same, identical

(1) **homozygous** allele, (2) **homozygous** mutation

The plant displayed the trait of resistance to pests due to being **homozygous** for the resistant gene.

identical

adj. being the exact same one

synonym: duplicate, exact, analogous

(1) pair of **identical** twins, (2) an **identical** equation

Infant formulas are nutritionally almost **identical** to a mother's breast milk.

heterozygous

adj. possessing different alleles for a particular gene, having inherited different versions of the gene from each parent

synonym: mixed, non-identical

(1) **heterozygous** trait, (2) **heterozygous** genotype

She inherited the genetic disorder because she is

heterozygous for the mutated gene.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym: blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

genotype

n. the genetic constitution of an individual organism; the inherited collection of genes that determine an organism's traits and characteristics

synonym: genetic constitution

(1) **genotype** frequency, (2) heterozygous **genotype**

The baby's **genotype** is determined by the combination of genes inherited from its parents.

phenotype

n. the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives

synonym: trait, characteristic, attribute

(1) **phenotype** variation, (2) dominant **phenotype**

Our genetic **phenotype** determines the color of our eyes.

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her

mind.

distribute

v. to give something to a large number of individuals, or to spread or furnish something

synonym: broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content
His estate was **distributed** to his sons.

diagram

n. a simplified illustration of the appearance, structure, or workings of something

synonym: chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment operates.

ax

n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

synonym: hatchet, chopper, tomahawk

(1) chop wood with an **ax**, (2) an **ax** in the toolbox

He used an **ax** to chop the firewood for the campfire.

uppercase

n. the capital form of a letter in a written or printed text; text or writing that is predominantly or exclusively in capital letters

synonym: capital, capital letter, majuscule

(1) **uppercase** letter, (2) change to **uppercase**

Please type your password in **uppercase** to log into your account.

lowercase

n. a letter or typeface that is small in size and typically sits below the baseline of a line of text; opposite of uppercase

synonym: small letters, minuscule

(1) **lowercase** alphabet, (2) change to **lowercase**

Please type your password in all **lowercase** letters.

overpower

v. to conquer or establish complete control over someone by using superior strength

synonym: overwhelm, conquer, surpass

(1) **overpower** the suspect, (2) **overpower** the opponent

The shooter was eventually **overpowered** and arrested by police.

proportion

n. a part, share, or amount of something considered in comparative relation to a whole

synonym: ratio, balance, consonance

(1) direct **proportion**, (2) a building of vast **proportions**

He is more concerned about the **proportion** of his body fat than usual because of an upcoming bodybuilding competition.

wrinkle

n. a small line or fold in something, especially fabric or the skin of the face; a minor difficulty

synonym: crinkle, fold, crumple

(1) a fine **wrinkle** on a fabric, (2) a facial **wrinkle**

This suit is made of **wrinkle-proof** material.

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

genetics

n. the branch of biology that studies genes, genetic variation, and heredity in organisms

(1) the science of **genetics**, (2) **genetics** discrimination
He is a specialist in the **genetics** of aging.

Session 2: Spelling

1. a cl____c experiment
adj. judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
2. gene va_____on
n. the act or state of changing; a difference or change in the way something is done, made or said
3. pr_____le in business
n. a fundamental law or truth that explains or controls how something happens or works
4. hom_____us allele
adj. possessing identical alleles for a particular gene, having inherited the same version of the gene from both parents
5. fe_____ze the soil
v. to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well
6. in__r the possibility
v. to form an opinion or conclude that something is true based on existing facts
7. sp_____ic instructions
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
8. ov_____er the suspect
v. to conquer or establish complete control over someone by using superior strength

ANSWERS: 1. classic, 2. variation, 3. principle, 4. homozygous, 5. fertilize, 6. infer, 7. specific, 8. overpower

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|------------------------------------|--|
| 9. industry-sp_____ic regulations | <i>adj.</i> clearly defined or particular to a certain thing or situation; distinct, explicit, and precise |
| 10. p_a protein | <i>n.</i> a small, round, green vegetable that grows in pods on a climbing plant and is eaten as a vegetable |
| 11. evolutionary bi_____y | <i>n.</i> the scientific study of life and the natural processes of living things |
| 12. ph_____pe variation | <i>n.</i> the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives |
| 13. fe_____ze the female egg | <i>v.</i> to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well |
| 14. co_____e augmented reality | <i>v.</i> to join or merge to form a single thing or group |
| 15. a building of vast pro_____ons | <i>n.</i> a part, share, or amount of something considered in comparative relation to a whole |
| 16. ge_____pe frequency | <i>n.</i> the genetic constitution of an individual organism; the inherited collection of genes that determine an organism's traits and characteristics |
| 17. ov_____er the opponent | <i>v.</i> to conquer or establish complete control over someone by using superior strength |

ANSWERS: 9. specific, 10. pea, 11. biology, 12. phenotype, 13. fertilize, 14. combine, 15. proportion, 16. genotype, 17. overpower

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|---------------------------------|--|
| 18. an interspecific hy___d | <i>adj.</i> composed of different elements or mixed characters |
| 19. genic com_____ons | <i>n.</i> a collection of things that have been combined; an assemblage of separate parts or qualities |
| 20. m__k lifestyle | <i>n.</i> a member of a religious community of men living under vows of poverty, chastity, and obedience |
| 21. re_____ve allele | <i>adj.</i> of or relating to the state of the economy declines; (of a gene) controlling a characteristic that is expressed only when a dominant allele is not present |
| 22. br__d suspicion | <i>v.</i> to keep animals for producing offspring in a regulated manner |
| 23. a scientific di_____ry | <i>n.</i> the act or process of finding information, a place, or an object, or learning about something that was previously not known |
| 24. 3D di_____m | <i>n.</i> a simplified illustration of the appearance, structure, or workings of something |
| 25. ca_____te the distance | <i>v.</i> to judge or find out the amount or number of something by using mathematics |
| 26. cell and molecular bi_____y | <i>n.</i> the scientific study of life and the natural processes of living things |
| 27. vi_____ze data | <i>v.</i> to form a mental image or concept of something; to make something visible |

ANSWERS: 18. hybrid, 19. combination, 20. monk, 21. recessive, 22. breed, 23. discovery, 24. diagram, 25. calculate, 26. biology, 27. visualize

28. an id_____al equation *adj.* being the exact same one
29. up_____se letter *n.* the capital form of a letter in a written or printed text; text or writing that is predominantly or exclusively in capital letters
30. pu_____ed horse *adj.* belonging to a specific breed, type, or strain of animal, particularly a dog or horse, that has been selectively bred for specific traits over several generations
31. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
32. het_____ous trait *adj.* possessing different alleles for a particular gene, having inherited different versions of the gene from each parent
33. s__d money *n.* a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant
34. an ax in the toolbox *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
35. heterozygous ge_____pe *n.* the genetic constitution of an individual organism; the inherited collection of genes that determine an organism's traits and characteristics
36. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes

ANSWERS: 28. identical, 29. uppercase, 30. purebred, 31. calculate, 32. heterozygous, 33. seed, 34. ax, 35. genotype, 36. genetic

37. Chinese cl____c literature *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
38. inherit one al____e *n.* any of the alternative forms of a gene that can occupy a given chromosomal location
39. change to up____se *n.* the capital form of a letter in a written or printed text; text or writing that is predominantly or exclusively in capital letters
40. com____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
41. br__d horses *v.* to keep animals for producing offspring in a regulated manner
42. the great di____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
43. p_a family *n.* a small, round, green vegetable that grows in pods on a climbing plant and is eaten as a vegetable
44. mo____ry garden *n.* a building or complex of buildings in which members of a male religious community, called monks, live and worship
45. leave a mo____ry *n.* a building or complex of buildings in which members of a male religious community, called monks, live and worship

ANSWERS: 37. classic, 38. allele, 39. uppercase, 40. combination, 41. breed, 42. discovery, 43. pea, 44. monastery, 45. monastery

46. the characters that re_____nt numbers
v. to speak, act, or be present on behalf of another person or group; to form or constitute
47. have ge_____c testing
adj. of or relating to genes (= parts of the DNA in cells) or the science of genes
48. do_____nt force
adj. more important, influential, or easy to notice than anything else of the same type
49. des_____nt of a pioneer
n. children or offspring of a specific person, plant, or animal
50. change to lo_____se
n. a letter or typeface that is small in size and typically sits below the baseline of a line of text; opposite of uppercase
51. dis_____te video content
v. to give something to a large number of individuals, or to spread or furnish something
52. chop wood with an ax
n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
53. chemical tr__t
n. a particular feature of your nature
54. personality tr__ts
n. a particular feature of your nature
55. cognitive com_____ty
n. the state or quality of being complicated or intricate and difficult to understand
56. com_____ty theory
n. the state or quality of being complicated or intricate and difficult to understand
57. in_____t estate
v. to receive money, property, or a title from someone after they have died

ANSWERS: 46. represent, 47. genetic, 48. dominant, 49. descendant, 50. lowercase, 51. distribute, 52. ax, 53. trait, 54. trait, 55. complexity, 56. complexity, 57. inherit

58. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
59. direct pro_____on *n.* a part, share, or amount of something considered in comparative relation to a whole
60. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
61. third-generation des_____nt *n.* children or offspring of a specific person, plant, or animal
62. the al_____e in a pair *n.* any of the alternative forms of a gene that can occupy a given chromosomal location
63. pr_____le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
64. ge_____cs discrimination *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
65. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
66. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
67. pro_____tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

ANSWERS: 58. complicated, 59. proportion, 60. combine, 61. descendant, 62. allele, 63. principle, 64. genetics, 65. represent, 66. disease, 67. probabilistic

68. het_____ous genotype *adj.* possessing different alleles for a particular gene, having inherited different versions of the gene from each parent
69. pro_____tic approach *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
70. a fine wr_____e on a fabric *n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
71. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
72. in_____t ancestral property *v.* to receive money, property, or a title from someone after they have died
73. cloistered m__k *n.* a member of a religious community of men living under vows of poverty, chastity, and obedience
74. dominant ph_____pe *n.* the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives
75. hom_____us mutation *adj.* possessing identical alleles for a particular gene, having inherited the same version of the gene from both parents
76. pair of id_____al twins *adj.* being the exact same one
77. the science of ge_____cs *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms

ANSWERS: 68. heterozygous, 69. probabilistic, 70. wrinkle, 71. visualize, 72. inherit, 73. monk, 74. phenotype, 75. homozygous, 76. identical, 77. genetics

78. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
79. dis_____te wealth evenly *v.* to give something to a large number of individuals, or to spread or furnish something
80. a facial wr_____e *n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
81. stripes cha_____tic of the zebra *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
82. a s__d coat *n.* a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant
83. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
84. my friend's cha_____tic laugh *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
85. achieve a do_____nt share *adj.* more important, influential, or easy to notice than anything else of the same type
86. lo_____se alphabet *n.* a letter or typeface that is small in size and typically sits below the baseline of a line of text; opposite of uppercase
87. in__r quality from price *v.* to form an opinion or conclude that something is true based on existing facts

ANSWERS: 78. diagram, 79. distribute, 80. wrinkle, 81. characteristic, 82. seed, 83. complicated, 84. characteristic, 85. dominant, 86. lowercase, 87. infer

88. va_____on of temperature

n. the act or state of changing; a difference or change in the way something is done, made or said

89. re_____ve mutant

adj. of or relating to the state of the economy declines; (of a gene) controlling a characteristic that is expressed only when a dominant allele is not present

90. pu_____ed dog

adj. belonging to a specific breed, type, or strain of animal, particularly a dog or horse, that has been selectively bred for specific traits over several generations

91. di_____e control

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

92. new hy____d system

adj. composed of different elements or mixed characters

ANSWERS: 88. variation, 89. recessive, 90. purebred, 91. disease, 92. hybrid

Session 3: Fill in the Blanks

1. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
2. He couldn't _____ the actual value of the artwork.
v. to judge or find out the amount or number of something by using mathematics
3. Hydrogen and oxygen _____ to form water.
v. to join or merge to form a single thing or group
4. The mule is a _____ between a male donkey and a female horse.
adj. composed of different elements or mixed characters
5. The couple decided to use the non-husband sperm to _____ a wife.
v. to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well
6. Environmental factors can also influence the expression of _____ a phenomenon known as epigenetics.
n. any of the alternative forms of a gene that can occupy a given chromosomal location
7. In a _____ system, the outcome is uncertain and can vary based on chance.
adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

ANSWERS: 1. complicated, 2. calculate, 3. combine, 4. hybrid, 5. fertilize, 6. alleles, 7. probabilistic

8. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
9. He displayed the _____ symptoms of depression.
adj. judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
10. Bananas have their _____ taste and odor.
n. a typical feature or quality that can identify, tell apart, or describe something or somebody
11. Animal desire and preference are always _____ from their behavior.
v. to form an opinion or conclude that something is true based on existing facts
12. Those warriors' _____ are still skilled archers.
n. children or offspring of a specific person, plant, or animal
13. The plant displayed the trait of resistance to pests due to being _____ for the resistant gene.
adj. possessing identical alleles for a particular gene, having inherited the same version of the gene from both parents
14. The baby's _____ is determined by the combination of genes inherited from its parents.
n. the genetic constitution of an individual organism; the inherited collection of genes that determine an organism's traits and characteristics
15. After his death, his sons _____ his business.
v. to receive money, property, or a title from someone after they have died

ANSWERS: 8. complexity, 9. classic, 10. characteristic, 11. inferred, 12. descendants, 13. homozygous, 14. genotype, 15. inherited

16. She shelled the _____ and added them to the pot.

n. a small, round, green vegetable that grows in pods on a climbing plant and is eaten as a vegetable

17. The _____ gene for blue eyes is only expressed when both parents carry the gene.

adj. of or relating to the state of the economy declines; (of a gene) controlling a characteristic that is expressed only when a dominant allele is not present

18. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

19. He is drawing a _____ illustrating how the equipment operates.

n. a simplified illustration of the appearance, structure, or workings of something

20. This ancient _____ was founded in the 13th century and had a long history of religious devotion.

n. a building or complex of buildings in which members of a male religious community, called monks, live and worship

21. His estate was _____ to his sons.

v. to give something to a large number of individuals, or to spread or furnish something

22. In junior high school, we had to dissect a frog in _____ class.

n. the scientific study of life and the natural processes of living things

23. This animal _____ in northern latitudes.

v. to keep animals for producing offspring in a regulated manner

ANSWERS: 16. peas, 17. recessive, 18. specific, 19. diagram, 20. monastery, 21. distributed, 22. biology, 23. breeds

24. We elected him to _____ us at the international conference.

- v.* to speak, act, or be present on behalf of another person or group; to form or constitute

25. Please type your password in _____ to log into your account.

- n.* the capital form of a letter in a written or printed text; text or writing that is predominantly or exclusively in capital letters

26. Infant formulas are nutritionally almost _____ to a mother's breast milk.

- adj.* being the exact same one

27. The _____ to the safe was a secret.

- n.* a collection of things that have been combined; an assemblage of separate parts or qualities

28. She inherited the genetic disorder because she is _____ for the mutated gene.

- adj.* possessing different alleles for a particular gene, having inherited different versions of the gene from each parent

29. She tried to _____ the layout of the new house in her mind.

- v.* to form a mental image or concept of something; to make something visible

30. Our genetic _____ determines the color of our eyes.

- n.* the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives

31. Her research team made an important _____.

- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 24. represent, 25. uppercase, 26. identical, 27. combination, 28. heterozygous, 29. visualize, 30. phenotype, 31. discovery

32. Her company soon won a _____ market share.

adj. more important, influential, or easy to notice than anything else of the same type

33. This suit is made of _____ material.

n. a small line or fold in something, especially fabric or the skin of the face; a minor difficulty

34. The shooter was eventually _____ and arrested by police.

v. to conquer or establish complete control over someone by using superior strength

35. There is a lot of _____ in the colors of flowers in the garden.

n. the act or state of changing; a difference or change in the way something is done, made or said

36. Understanding protein folding is a vital step in deciphering the _____ code.

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

37. He planted the _____ in the soil and waited for it to sprout.

n. a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant

38. The doctor diagnosed him with a rare _____ that had no known cure.

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

39. Efficiency isn't an essential _____ here; fairness is.

n. a fundamental law or truth that explains or controls how something happens or works

ANSWERS: 32. dominant, 33. wrinkle-proof, 34. overpowered, 35. variation, 36. genetic, 37. seed, 38. disease, 39. principle

40. Multiple genes may influence behavioral _____ concurrently.

n. a particular feature of your nature

41. He is more concerned about the _____ of his body fat than usual because of an upcoming bodybuilding competition.

n. a part, share, or amount of something considered in comparative relation to a whole

42. The breeder assured us that our new puppy was _____ and came from a long line of champions.

adj. belonging to a specific breed, type, or strain of animal, particularly a dog or horse, that has been selectively bred for specific traits over several generations

43. He used an ___ to chop the firewood for the campfire.

n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

44. He is a specialist in the _____ of aging.

n. the branch of biology that studies genes, genetic variation, and heredity in organisms

45. The ascetic _____ spent his days in prayer and contemplation in the monastery.

n. a member of a religious community of men living under vows of poverty, chastity, and obedience

46. Please type your password in all _____ letters.

n. a letter or typeface that is small in size and typically sits below the baseline of a line of text; opposite of uppercase

ANSWERS: 40. traits, 41. proportion, 42. purebred, 43. ax, 44. genetics, 45. monk, 46. lowercase