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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](https://www.ted.com/talks/hortensia_jimenez_diaz_how_mendel_s_pea_plants_helped_us_understand_genetics)

### Advanced Words Only

#### IMPORTANT

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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.

### 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.

### 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.

### 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.

## 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.

## 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.

## 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.

### 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.

### 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.

## 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.

## 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.

## 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.

## Session 2: Spelling

1. mo\_\_\_\_\_ry garden  
*n.* a building or complex of buildings in which members of a male religious community, called monks, live and worship
2. 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
3. het\_\_\_\_\_ous genotype  
*adj.* possessing different alleles for a particular gene, having inherited different versions of the gene from each parent
4. hom\_\_\_\_\_us allele  
*adj.* possessing identical alleles for a particular gene, having inherited the same version of the gene from both parents
5. the al\_\_\_e in a pair  
*n.* any of the alternative forms of a gene that can occupy a given chromosomal location
6. fe\_\_\_\_\_ze the female egg  
*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
7. 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

ANSWERS: 1. monastery, 2. uppercase, 3. heterozygous, 4. homozygous, 5. allele, 6. fertilize, 7. ax

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|----------------------------|--|
| 8. cloistered m__k         | <i>n.</i> a member of a religious community of men living under vows of poverty, chastity, and obedience   |
| 9. ov_____er the suspect   | <i>v.</i> to conquer or establish complete control over someone by using superior strength   |
| 10. in_____t estate        | <i>v.</i> to receive money, property, or a title from someone after they have died   |
| 11. change to up_____se    | <i>n.</i> the capital form of a letter in a written or printed text; text or writing that is predominantly or exclusively in capital letters                           |
| 12. 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   |
| 13. chemical tr__t         | <i>n.</i> a particular feature of your nature  |
| 14. re_____ve mutant       | <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 |
| 15. p_a family             | <i>n.</i> a small, round, green vegetable that grows in pods on a climbing plant and is eaten as a vegetable   |
| 16. heterozygous ge_____pe | <i>n.</i> the genetic constitution of an individual organism; the inherited collection of genes that determine an organism's traits and characteristics                |
| 17. pro_____tic approach   | <i>adj.</i> characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks               |

ANSWERS: 8. monk, 9. overpower, 10. inherit, 11. uppercase, 12. pea, 13. trait, 14. recessive, 15. pea, 16. genotype, 17. probabilistic

18. in\_\_\_\_\_t ancestral property      *v.* to receive money, property, or a title from someone after they have died
19. 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
20. vi\_\_\_\_\_ze data      *v.* to form a mental image or concept of something; to make something visible
21. des\_\_\_\_\_nt of a pioneer      *n.* children or offspring of a specific person, plant, or animal
22. het\_\_\_\_\_ous trait      *adj.* possessing different alleles for a particular gene, having inherited different versions of the gene from each parent
23. inherit one al\_\_\_\_e      *n.* any of the alternative forms of a gene that can occupy a given chromosomal location
24. ge\_\_\_\_\_pe frequency      *n.* the genetic constitution of an individual organism; the inherited collection of genes that determine an organism's traits and characteristics
25. re\_\_\_\_\_ve allele      *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
26. 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

ANSWERS: 18. inherit, 19. wrinkle, 20. visualize, 21. descendant, 22. heterozygous, 23. allele, 24. genotype, 25. recessive, 26. phenotype



27. leave a mo\_\_\_\_\_ry *n.* a building or complex of buildings in which members of a male religious community, called monks, live and worship
28. 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
29. personality tr\_\_ts *n.* a particular feature of your nature
30. third-generation des\_\_\_\_\_nt *n.* children or offspring of a specific person, plant, or animal
31. 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
32. a facial wr\_\_\_\_\_e *n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
33. 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
34. hom\_\_\_\_\_us mutation *adj.* possessing identical alleles for a particular gene, having inherited the same version of the gene from both parents
35. 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

ANSWERS: 27. monastery, 28. lowercase, 29. trait, 30. descendant, 31. fertilize, 32. wrinkle, 33. lowercase, 34. homozygous, 35. ax

36. ph\_\_\_\_\_pe variation *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
37. in\_\_r quality from price *v.* to form an opinion or conclude that something is true based on existing facts
38. vi\_\_\_\_\_ze flying through space *v.* to form a mental image or concept of something; to make something visible
39. 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
40. in\_\_r the possibility *v.* to form an opinion or conclude that something is true based on existing facts
41. 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
42. m\_\_k lifestyle *n.* a member of a religious community of men living under vows of poverty, chastity, and obedience
43. ov\_\_\_\_\_er the opponent *v.* to conquer or establish complete control over someone by using superior strength
44. 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: 36. phenotype, 37. infer, 38. visualize, 39. purebred, 40. infer, 41. purebred, 42. monk, 43. overpower, 44. probabilistic

ANSWERS:

## Session 3: Fill in the Blanks

1. 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
2. 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
3. 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
4. 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
5. 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
6. Those warriors' \_\_\_\_\_ are still skilled archers.
  - n.* children or offspring of a specific person, plant, or animal
7. 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

ANSWERS: 1. genotype, 2. recessive, 3. lowercase, 4. heterozygous, 5. homozygous, 6. descendants, 7. peas

8. 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
9. 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
10. 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
11. After his death, his sons \_\_\_\_\_ his business.
- v.* to receive money, property, or a title from someone after they have died
12. The shooter was eventually \_\_\_\_\_ and arrested by police.
- v.* to conquer or establish complete control over someone by using superior strength
13. 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
14. 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

ANSWERS: 8. probabilistic, 9. purebred, 10. wrinkle-proof, 11. inherited, 12. overpowered, 13. phenotype, 14. monk

15. 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
16. Multiple genes may influence behavioral \_\_\_\_\_ concurrently.
- n.* a particular feature of your nature
17. 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
18. 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
19. 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
20. 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
21. Animal desire and preference are always \_\_\_\_\_ from their behavior.
- v.* to form an opinion or conclude that something is true based on existing facts
22. 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

ANSWERS: 15. fertilize, 16. traits, 17. visualize, 18. monastery, 19. alleles, 20. ax, 21. inferred, 22. uppercase

ANSWERS: