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## Vocabulary Builder Reference from...

Mark Kendall: Demo: A needle-free vaccine patch that's safer and way cheaper | TED Talk

[https://www.ted.com/talks/mark\\_kendall\\_demo\\_a\\_needle\\_free\\_vaccine\\_patch\\_that\\_s\\_safer\\_and\\_way\\_cheaper](https://www.ted.com/talks/mark_kendall_demo_a_needle_free_vaccine_patch_that_s_safer_and_way_cheaper)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### birthplace

*n.* the house, town, etc., where someone was born  
*synonym*: hometown, native place, origin

(1) ancestral **birthplaces**, (2) **birthplace** of modern soccer  
The **birthplace** of civilization is a topic of much debate among historians.

### syringe

*n.* a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid  
*synonym*: needle, injector, shot

(1) **syringe** needle, (2) **syringe** injection  
Addicts often share dirty **syringes**, putting themselves at risk for disease.

### creditor

*n.* a person, company, etc. to whom a debtor owes money  
(1) the **creditor's** claims, (2) bankrupt **creditor**  
I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

### shortcoming

*n.* a lack or deficiency in a particular respect; a fault or defect  
*synonym*: deficiency, fault, weakness

(1) have a serious **shortcoming**, (2) the **shortcoming** in the system

The company's main **shortcoming** was a lack of innovation.

## phobia

*n.* an extreme or irrational fear of a particular object, person, situation, or activity; a type of anxiety disorder  
*synonym*: fear, dread, terror

(1) **phobia** treatment, (2) social **phobia**

She has a **phobia** of spiders and always avoids them.

## vaccinate

*v.* to treat with a vaccine, usually by injection, to produce immunity against a disease

*synonym*: immunize, inject, inoculate

(1) **vaccinate** against scarlet fever, (2) **vaccinate** every year

The nurse **vaccinated** the children in the school.

## rollout

*n.* the introduction or implementation of a new product, service, or system, particularly one that has been planned and developed over a period of time

*synonym*: launch, release, deployment

(1) **rollout** strategy, (2) software **rollout**

The company announced the **rollout** of its new product line next month.

## etch

*v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

*synonym*: engrave, inscribe, carve

(1) **etch** a metal plate, (2) **etch** a design into wood

He used a sharp tool to **etch** his initials onto the metal.

## industrious

*adj.* hardworking, diligent, and persistent in effort

*synonym*: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

## devise

*v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination

*synonym*: create, concoct, invent

(1) **devise** a plan, (2) **devise** a literary plot

They had to **devise** a system that did not depend on fossil fuels.

## improvisation

*n.* the act of making something up on the spot or creating or performing something without preparation

*synonym*: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

## immunogenicity

*n.* the ability of a substance, typically a vaccine or antigen, to induce an immune response in the body, which refers to the capacity of the substance to elicit the production of immune cells and antibodies, leading to an immune reaction and the development of immune memory

*synonym*: immunogen, antigenicity

(1) **immunogenicity** assay, (2) therapeutic **immunogenicity**

The scientists conducted extensive research to determine the **immunogenicity** of the new vaccine.

## germ

*n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

*synonym*: bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment

The **germ** of his idea came from watching birds flying in flocks.

## intruder

*n.* someone who enters a place or situation without permission or invitation; someone who interrupts or interferes in something

*synonym* : trespasser, intruder, interloper

(1) illegal **intruder**, (2) infrared **intruder** system

The homeowner called the police when they spotted an **intruder** in their backyard.

## magenta

*n.* a bright, purplish-red color named after a plant that was once used to produce a dye with a similar hue

*synonym* : purple-red, fuchsia

(1) **magenta** flowers, (2) **magenta** ink

The artist used **magenta** paint to make her painting pop with color.

## gamble

*v.* to take risky action in the hope of being successful; to play or game for money or other stakes

*synonym* : bet, venture, wager

(1) **gamble** \$100 on the race, (2) **gamble** away my fortune

Will you **gamble** on the result of the fight?

## distinctly

*adv.* in a way that is clearly or noticeably different or separates from something else; in a way that is unmistakably or unequivocally defined or identifiable

*synonym* : clearly, obviously, unmistakably

(1) **distinctly** remember, (2) **distinctly** different

The **distinctly** floral scent of the perfume lingered in the air long after the wearer had left the room.

## opportune

*adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

*synonym* : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

## refrigerate

*v.* to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep

something at a low temperature to prevent spoilage or degradation

*synonym* : chill, cool, freeze

(1) **refrigerate** perishable, (2) **refrigerate** medicine

We need to **refrigerate** the leftovers to keep them from spoiling.

## refrigeration

*n.* the process of cooling or freezing something, especially food, to preserve it

*synonym* : cooling, freezing, preservation

(1) **refrigeration** car, (2) **refrigeration** technology

The supermarket had a large **refrigeration** section with all kinds of fresh produce.

## biomedical

*adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

*synonym* : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

**Biomedical** engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

## guinea

*n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

*synonym* : coin, money, currency

(1) **guinea** coins, (2) **guinea** pig

The cost of the antique vase is three **guineas**.

## papillomavirus

*n.* a family of viruses that cause the growth of warts and can lead to the development of certain cancers; transmitted through skin-to-skin contact, usually during sexual activity

*synonym* : HPV

(1) human **papillomavirus**, (2) **papillomavirus-related** disease

The **papillomavirus** vaccine has been proven effective in preventing certain types of cancer.

## footnote

*n.* a note of additional information provided at the bottom of a page in a book or document, often indicated by a superscript number or symbol in the main text

*synonym*: annotation, comment, reference

(1) **footnote** citation, (2) add a **footnote**

I included a **footnote** in my essay to provide additional information and sources for my argument.

## Session 2: Spelling

1. gu\_\_\_a pig  
*n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
2. op\_\_\_\_\_ne occasion  
*adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
3. ph\_\_\_a treatment  
*n.* an extreme or irrational fear of a particular object, person, situation, or activity; a type of anxiety disorder
4. de\_\_\_e a plan  
*v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
5. ga\_\_\_e \$100 on the race  
*v.* to take risky action in the hope of being successful; to play or game for money or other stakes
6. imp\_\_\_\_\_ion on stage  
*n.* the act of making something up on the spot or creating or performing something without preparation
7. ga\_\_\_e away my fortune  
*v.* to take risky action in the hope of being successful; to play or game for money or other stakes
8. de\_\_\_e a literary plot  
*v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
9. imm\_\_\_\_\_ity assay  
*n.* the ability of a substance, typically a vaccine or antigen, to induce an immune response in the body, which refers to the capacity of the substance to elicit the production of immune cells and antibodies, leading to an immune reaction and the development of immune memory

ANSWERS: 1. guinea, 2. opportune, 3. phobia, 4. devise, 5. gamble, 6. improvisation, 7. gamble, 8. devise, 9. immunogenicity



10. sy\_\_\_\_e needle *n.* a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid
11. bir\_\_\_\_\_ce of modern soccer *n.* the house, town, etc., where someone was born
12. ancestral bir\_\_\_\_\_ces *n.* the house, town, etc., where someone was born
13. dis\_\_\_\_\_ly different *adv.* in a way that is clearly or noticeably different or separates from something else; in a way that is unmistakably or unequivocally defined or identifiable
14. pap\_\_\_\_\_rus-related disease *n.* a family of viruses that cause the growth of warts and can lead to the development of certain cancers; transmitted through skin-to-skin contact, usually during sexual activity
15. the sho\_\_\_\_\_ng in the system *n.* a lack or deficiency in a particular respect; a fault or defect
16. e\_\_h a design into wood *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
17. social ph\_\_\_a *n.* an extreme or irrational fear of a particular object, person, situation, or activity; a type of anxiety disorder
18. e\_\_h a metal plate *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

ANSWERS: 10. syringe, 11. birthplace, 12. birthplace, 13. distinctly, 14. papillomavirus, 15. shortcoming, 16. etch, 17. phobia, 18. etch

19. therapeutic imm\_\_\_\_\_ity      *n.* the ability of a substance, typically a vaccine or antigen, to induce an immune response in the body, which refers to the capacity of the substance to elicit the production of immune cells and antibodies, leading to an immune reaction and the development of immune memory
20. the cr\_\_\_\_or's claims      *n.* a person, company, etc. to whom a debtor owes money
21. software ro\_\_\_\_\_t      *n.* the introduction or implementation of a new product, service, or system, particularly one that has been planned and developed over a period of time
22. have a serious sho\_\_\_\_\_ng      *n.* a lack or deficiency in a particular respect; a fault or defect
23. ref\_\_\_\_\_ion car      *n.* the process of cooling or freezing something, especially food, to preserve it
24. ind\_\_\_\_\_us worker      *adj.* hardworking, diligent, and persistent in effort
25. infrared in\_\_\_\_\_er system      *n.* someone who enters a place or situation without permission or invitation; someone who interrupts or interferes in something
26. ro\_\_\_\_\_t strategy      *n.* the introduction or implementation of a new product, service, or system, particularly one that has been planned and developed over a period of time
27. bio\_\_\_\_\_al assay      *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

ANSWERS: 19. immunogenicity, 20. creditor, 21. rollout, 22. shortcoming, 23. refrigeration, 24. industrious, 25. intruder, 26. rollout, 27. biomedical

28. a g\_\_m-free environment      *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
29. human pap\_\_\_\_\_rus      *n.* a family of viruses that cause the growth of warts and can lead to the development of certain cancers; transmitted through skin-to-skin contact, usually during sexual activity
30. ref\_\_\_\_\_ion technology      *n.* the process of cooling or freezing something, especially food, to preserve it
31. antibiotic-resistant g\_\_m      *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
32. cutting-edge bio\_\_\_\_\_al      *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
33. ref\_\_\_\_\_te medicine      *v.* to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep something at a low temperature to prevent spoilage or degradation
34. dis\_\_\_\_\_ly remember      *adv.* in a way that is clearly or noticeably different or separates from something else; in a way that is unmistakably or unequivocally defined or identifiable
35. gu\_\_\_a coins      *n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

ANSWERS: 28. germ, 29. papillomavirus, 30. refrigeration, 31. germ, 32. biomedical, 33. refrigerate, 34. distinctly, 35. guinea

36. sy\_\_\_\_e injection *n.* a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid
37. jazz imp\_\_\_\_\_ion *n.* the act of making something up on the spot or creating or performing something without preparation
38. fo\_\_\_\_te citation *n.* a note of additional information provided at the bottom of a page in a book or document, often indicated by a superscript number or symbol in the main text
39. an op\_\_\_\_\_ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
40. ma\_\_\_\_a ink *n.* a bright, purplish-red color named after a plant that was once used to produce a dye with a similar hue
41. ma\_\_\_\_a flowers *n.* a bright, purplish-red color named after a plant that was once used to produce a dye with a similar hue
42. add a fo\_\_\_\_te *n.* a note of additional information provided at the bottom of a page in a book or document, often indicated by a superscript number or symbol in the main text
43. va\_\_\_\_\_te against scarlet fever *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
44. ind\_\_\_\_\_us student *adj.* hardworking, diligent, and persistent in effort

ANSWERS: 36. syringe, 37. improvisation, 38. footnote, 39. opportune, 40. magenta, 41. magenta, 42. footnote, 43. vaccinate, 44. industrious

45. illegal in\_\_\_\_er *n.* someone who enters a place or situation without permission or invitation; someone who interrupts or interferes in something
46. ref\_\_\_\_\_te perishable *v.* to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep something at a low temperature to prevent spoilage or degradation
47. va\_\_\_\_\_te every year *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
48. bankrupt cr\_\_\_\_or *n.* a person, company, etc. to whom a debtor owes money

ANSWERS: 45. intruder, 46. refrigerate, 47. vaccinate, 48. creditor

## Session 3: Fill in the Blanks

1. The company's main \_\_\_\_\_ was a lack of innovation.  
*n.* a lack or deficiency in a particular respect; a fault or defect
2. The homeowner called the police when they spotted an \_\_\_\_\_ in their backyard.  
*n.* someone who enters a place or situation without permission or invitation; someone who interrupts or interferes in something
3. He was known to be very \_\_\_\_\_ and would often work late into the night.  
*adj.* hardworking, diligent, and persistent in effort
4. We need to \_\_\_\_\_ the leftovers to keep them from spoiling.  
*v.* to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep something at a low temperature to prevent spoilage or degradation
5. The scientists conducted extensive research to determine the \_\_\_\_\_ of the new vaccine.  
*n.* the ability of a substance, typically a vaccine or antigen, to induce an immune response in the body, which refers to the capacity of the substance to elicit the production of immune cells and antibodies, leading to an immune reaction and the development of immune memory
6. \_\_\_\_\_ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.  
*adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

ANSWERS: 1. shortcoming, 2. intruder, 3. industrious, 4. refrigerate, 5. immunogenicity, 6. Biomedical

7. She has a \_\_\_\_\_ of spiders and always avoids them.
- n.* an extreme or irrational fear of a particular object, person, situation, or activity; a type of anxiety disorder
8. Addicts often share dirty \_\_\_\_\_ putting themselves at risk for disease.
- n.* a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid
9. The nurse \_\_\_\_\_ the children in the school.
- v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
10. He created a beautiful piece of music using only \_\_\_\_\_.
- n.* the act of making something up on the spot or creating or performing something without preparation
11. The cost of the antique vase is three \_\_\_\_\_.
- n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
12. The \_\_\_\_\_ of civilization is a topic of much debate among historians.
- n.* the house, town, etc., where someone was born
13. The artist used \_\_\_\_\_ paint to make her painting pop with color.
- n.* a bright, purplish-red color named after a plant that was once used to produce a dye with a similar hue
14. Will you \_\_\_\_\_ on the result of the fight?
- v.* to take risky action in the hope of being successful; to play or game for money or other stakes

ANSWERS: 7. phobia, 8. syringes, 9. vaccinated, 10. improvisation, 11. guineas, 12. birthplace, 13. magenta, 14. gamble

15. The company announced the \_\_\_\_\_ of its new product line next month.
- n.* the introduction or implementation of a new product, service, or system, particularly one that has been planned and developed over a period of time
16. He used a sharp tool to \_\_\_\_\_ his initials onto the metal.
- v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
17. The \_\_\_\_\_ of his idea came from watching birds flying in flocks.
- n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
18. The \_\_\_\_\_ floral scent of the perfume lingered in the air long after the wearer had left the room.
- adv.* in a way that is clearly or noticeably different or separates from something else; in a way that is unmistakably or unequivocally defined or identifiable
19. I asked the lawyer to initiate \_\_\_\_\_ negotiations for voluntary liquidation.
- n.* a person, company, etc. to whom a debtor owes money
20. They had to \_\_\_\_\_ a system that did not depend on fossil fuels.
- v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
21. The phone rang at the most \_\_\_\_\_ time.
- adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
22. I included a \_\_\_\_\_ in my essay to provide additional information and sources for my argument.
- n.* a note of additional information provided at the bottom of a page in a book or document, often indicated by a superscript number or symbol in the main text

ANSWERS: 15. rollout, 16. etch, 17. germ, 18. distinctly, 19. creditor, 20. devise, 21. opportune, 22. footnote



23. The \_\_\_\_\_ vaccine has been proven effective in preventing certain types of cancer.

- n.* a family of viruses that cause the growth of warts and can lead to the development of certain cancers; transmitted through skin-to-skin contact, usually during sexual activity

24. The supermarket had a large \_\_\_\_\_ section with all kinds of fresh produce.

- n.* the process of cooling or freezing something, especially food, to preserve it

ANSWERS: 23. papillomavirus, 24. refrigeration