

# Englist.me



## Vocabulary Builder Reference from...

*Victoria Hwang: What is the rarest color in nature? |*

*TED Talk*

[https://www.ted.com/talks/victoria\\_hwang\\_what\\_is\\_the\\_rarest\\_color\\_in\\_nature](https://www.ted.com/talks/victoria_hwang_what_is_the_rarest_color_in_nature)

### All Words

#### IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

## Session 1: Word List

### mineral

*n.* a solid inorganic substance occurring in nature having a definite chemical composition

(1) vitamin and **minerals**, (2) **mineral** rights

The robust economy of the country is based on its **mineral** resources.

### hue

*n.* the quality of a color as determined by its dominant wavelength

*synonym*: dye, tint, coloring

(1) the **hues** of a rainbow, (2) **hue** change

To achieve a warmer **hue**, add orange paint.

### imaginable

*adj.* capable of being imagined

*synonym*: conceivable, plausible, possible

(1) easily **imaginable**, (2) worst **imaginable** case

This is the only **imaginable** strategy.

### rarity

*n.* the condition or trait of being unusual; something that is unusual

*synonym*: rareness, infrequency, uncommonness

(1) the **rarity** of the event, (2) book of great **rarity**

Due to their **rarity**, diamonds are expensive.

## physics

*n.* the science of matter and energy and their interactions  
(1) nuclear **physics**, (2) laws of **physics**  
He studied the **physics** of radiation.

## evolution

*n.* a gradual process of transformation of living things  
*synonym*: elaboration, expansion, transition  
(1) human **evolution**, (2) **evolution** theory  
They study the **evolution** of the universe.

## wavelength

*n.* the distance between two points in the same phase in consecutive cycles of a wave  
(1) **wavelength** of light, (2) long- **wavelength** laser  
White color is made up of many different **wavelengths** of light.

## interact

*v.* to communicate or react with somebody  
*synonym*: cooperate, combine, collaborate  
(1) **interact** directly with customers, (2) **interact** with one another  
He should **interact** more with his colleagues.

## absorption

*n.* a process in which one substance permeates another; a fluid permeates or is dissolved by a liquid or solid  
*synonym*: consumption, digestion, soaking up  
(1) the **absorption** of photons, (2) **absorption** energy  
Vitamin D is essential to assist the **absorption** of calcium from food.

## absorb

*v.* to take in a fluid or other substance gradually  
*synonym*: consume, soak, ingest  
(1) **absorb** energy, (2) **absorb** a shock  
The sponge **absorbs** water well.

## matte

*adj.* having a surface without a shine, luster; non-glossy  
*synonym*: dull, flat, lusterless  
(1) **matte** coating, (2) photo with a **matte** finish

The body of his car has a **matte** finish.

## leftover

*adj.* not consumed or used at the end of something

*synonym* : extra, residual, unused

(1) **leftover** from a party, (2) **leftover** goods

The chef will make soup with the **leftover** ham bone.

## naturally

*adv.* as might be expected; by natural manners

*synonym* : by nature, inherently, intrinsically

(1) **naturally** arising, (2) **naturally** regenerated forest

He was **naturally** gifted.

## compound

*n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

*synonym* : combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**

Common salt is a sodium and chlorine **compound**.

## photosynthesis

*n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

## convert

*v.* to have a talk with someone; (adjective) reversed in order, relation, or action

*synonym* : alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16

I want to **convert** my sadness into strength.

## sunlight

*n.* the light emitted by the sun; the rays of the sun

*synonym* : daylight, rays, sunshine

(1) a glare of **sunlight**, (2) in direct **sunlight**

Radiation from **sunlight** has a different wavelength.

## evolve

*v.* to develop gradually, or to cause the development of something or someone gradually

*synonym* : develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

## visible

*adj.* capable of being seen; or open to easy view

*synonym* : clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

## spectrum

*n.* an ordered array of colors into which a light beam can be split

*synonym* : range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum**

This device displayed the speech **spectrum** spectrographically.

## numerous

*adj.* amounting to a large indefinite number

*synonym* : many, considerable, countless

(1) **numerous** countries, (2) as **numerous** as the sand

These descriptions are based on a number of **numerous** assumptions.

## chlorophyll

*n.* any of a group of green pigments found in photosynthetic organisms

(1) **chlorophyll** pigment, (2) bacterial **chlorophyll**

**Chlorophyll** utilizes sunlight to create sugars.

## trademark

*n.* a name or symbol on a product that indicates it was made by a particular company and cannot be used without permission by other companies

*synonym* : brand, label, hallmark

(1) **trademark** license, (2) assign a **trademark**

The company's logo is a registered **trademark** on a global scale.

### energetic

*adj.* possessing or exerting or displaying energy

*synonym* : active, animated, lively

(1) **energetic** density, (2) **energetic** dog

This process caused an **energetic** chemical reaction.

### carotenoid

*n.* organic pigments of yellow, orange, and red that are produced by plants, algae, and various bacteria and fungus

(1) **carotenoid** pigment, (2) **carotenoid** biosynthesis

**Carotenoids** provide two essential features for living things.

### virtually

*adv.* almost completely

*synonym* : almost, basically, nearly

(1) **virtually** all countries, (2) **virtually** identical

**Virtually** all the parties signed the contract.

### purple

*adj.* of a color intermediate between red and blue

*synonym* : violet

(1) deep **purple**, (2) **purple** sweet potatoes

The plant has a stunning **purple** blossom.

### chemical

*adj.* relating to or connected with chemistry;

*synonym* : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

### scatter

*v.* to cause to separate and go in different directions

*synonym* : disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet

The hunter's approach **scattered** the geese.

### amplify

*v.* to enhance something, particularly sound or brightness

*synonym* : intensify, boost, argument

(1) **amplify** a signal, (2) **amplify** the effect

You might need to **amplify** this point.

## 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.

## structural

*adj.* associated with the way on construction or organization of anything

*synonym*: architectural, basic, anatomical

(1) **structural** analyses, (2) **structural** reorganization

The earthquake resulted in significant **structural** destruction.

## microscopic

*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

*synonym*: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

## particle

*n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

*synonym*: atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

## nanostructure

*n.* a structure that falls in between microscopic and molecular in size

(1) **nanostructure** material, (2) three-dimensional **nanostructure**

This feature of the material is a result of its **nanostructure**.

## interfere

v. to get involved in and prevent a process or activity from continuing

*synonym*: interpose, interrupt, hamper

(1) **interfere** in another country's affairs, (2) **interfere** with DNA synthesis

Your talking **interferes** with my work.

## strike

v. to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon

*synonym*: hit, impact, influence

(1) **strike** up a conversation, (2) **strike** a blow

We **strike** to achieve more wages and safer working conditions.

## electron

n. a tiny particle with the negative electrical charge

*synonym*: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

## vibrate

v. to move or cause anything to move fast and in small increments from side to side

*synonym*: oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

## frequency

n. an ordered array of colors into which a light beam can be split

*synonym*: recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**

The oscillator hunts for the correct **frequency**.

## reaction

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

*synonym*: response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

## typical

*adj.* having the usual characteristics or traits of a specific group of things

*synonym*: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

## resonate

*v.* to be filled with a deep echoing sound

*synonym*: echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

## illumination

*n.* light or source of light; the degree of visibility of your environment

*synonym*: light, luminosity, brightness

(1) starry **illumination**, (2) indirect **illumination**

The skylight will give adequate **illumination** from above.

## observation

*n.* the act or activity of carefully examining or monitoring something or someone

*synonym*: watching, notice, reflection

(1) class **observation** day, (2) **observation** instrument

In the hospital, she will remain under constant **observation**.

## contender

*n.* the contestant you hope to defeat

*synonym*: rival, competitor, challenger

(1) championship **contender**, (2) presidential **contender**

We were looking at a severe **contender** indeed.

## iridescent

*adj.* varying in color when seen in different lights or from different angles

*synonym*: pearlescent, rainbowy, opaline

(1) an **iridescent** oil slick, (2) **iridescent** color



Her most recent fashion collection incorporates sparkling **iridescent** materials.

### exclusive

*adj.* not divided or shared with others

*synonym* : sole, deluxe, limited

(1) **exclusive** authority, (2) **exclusive** clubs

The condo offers **exclusive** access to the beach.

### violet

*adj.* between blue and purple in hue

*synonym* : purple

(1) bluish- **violet**, (2) **violet** quartz

Red and **violet** are opposites on the color spectrum.

### confuse

*v.* to mistake one thing for another; to make somebody hard to understand

*synonym* : confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

### 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.

### occupy

*v.* to consume all of someone's space, attention, or time

*synonym* : inhabit, settle, populate

(1) **occupy** his time, (2) **occupy** a position

The young prince will soon **occupy** the throne.

### precise

*adj.* sharply exact or accurate or delimited

*synonym* : accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

## stumble

*v.* to miss a step and fall or nearly fall; to walk unsteadily  
*synonym*: bumble, struggle, misstep

(1) **stumble** financially, (2) **stumble** through life  
She **stumbled** over the tree root.

## emperor

*n.* the male ruler of an empire

*synonym*: ruler, king, dictator

(1) **emperor** of Rome, (2) former **emperor**  
The **Emperor** once lived in the vast palace.

## butterfly

*n.* a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings

(1) **butterfly** effect, (2) the life cycle of a **butterfly**  
He enjoys collecting **butterfly** specimens.

## appreciate

*v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone

*synonym*: acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value  
We would **appreciate** an early reply.

## spectacle

*n.* something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision

*synonym*: marvel, sensation, phenomenon

(1) pretty **spectacle**, (2) **spectacle** lens  
She could not help watching the sad **spectacle**.

## Session 2: Spelling

- |                                   |   |
|-----------------------------------|---|
| 1. re____te in the same frequency | <i>v.</i> to be filled with a deep echoing sound  |
| 2. ma__e coating                  | <i>adj.</i> having a surface without a shine, luster; non-glossy  |
| 3. mi____l rights                 | <i>n.</i> a solid inorganic substance occurring in nature having a definite chemical composition                        |
| 4. chl____ll pigment              | <i>n.</i> any of a group of green pigments found in photosynthetic organisms  |
| 5. the life cycle of a bu____ly   | <i>n.</i> a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings                 |
| 6. high fr____cy                  | <i>n.</i> an ordered array of colors into which a light beam can be split   |
| 7. former em____r                 | <i>n.</i> the male ruler of an empire   |
| 8. championship co____er          | <i>n.</i> the contestant you hope to defeat   |
| 9. class obs____on day            | <i>n.</i> the act or activity of carefully examining or monitoring something or someone                                 |
| 10. en____ic density              | <i>adj.</i> possessing or exerting or displaying energy   |
| 11. st__e up a conversation       | <i>v.</i> to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon |
| 12. indirect ill____ion           | <i>n.</i> light or source of light; the degree of visibility of your environment  |

ANSWERS: 1. resonate, 2. matte, 3. mineral, 4. chlorophyll, 5. butterfly, 6. frequency, 7. emperor, 8. contender, 9. observation, 10. energetic, 11. strike, 12. illumination

- |                              |   |
|------------------------------|---|
| 13. le_____er from a party   | <i>adj.</i> not consumed or used at the end of something  |
| 14. flow of el_____ons       | <i>n.</i> a tiny particle with the negative electrical charge   |
| 15. ex_____ve clubs          | <i>adj.</i> not divided or shared with others   |
| 16. st_____e through life    | <i>v.</i> to miss a step and fall or nearly fall; to walk unsteadily  |
| 17. nu_____us countries      | <i>adj.</i> amounting to a large indefinite number  |
| 18. st_____e financially     | <i>v.</i> to miss a step and fall or nearly fall; to walk unsteadily  |
| 19. st___e a blow            | <i>v.</i> to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon |
| 20. co_____t fat into energy | <i>v.</i> to have a talk with someone; (adjective) reversed in order, relation, or action                               |
| 21. fairly ty_____l symptoms | <i>adj.</i> having the usual characteristics or traits of a specific group of things                                    |
| 22. co_____e the listener    | <i>v.</i> to mistake one thing for another; to make somebody hard to understand   |
| 23. vi_____ly all countries  | <i>adv.</i> almost completely   |
| 24. en_____ic dog            | <i>adj.</i> possessing or exerting or displaying energy   |
| 25. ov_____er the opponent   | <i>v.</i> to conquer or establish complete control over someone by using superior strength                              |
| 26. ev_____on theory         | <i>n.</i> a gradual process of transformation of living things  |

ANSWERS: 13. leftover, 14. electron, 15. exclusive, 16. stumble, 17. numerous, 18. stumble, 19. strike, 20. convert, 21. typical, 22. confuse, 23. virtually, 24. energetic, 25. overpower, 26. evolution

27. estimate pr\_\_\_\_e costs *adj.* sharply exact or accurate or delimited
28. as nu\_\_\_\_us as the sand *adj.* amounting to a large indefinite number
29. pu\_\_\_\_e sweet potatoes *adj.* of a color intermediate between red and blue
30. mic\_\_\_\_ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
31. harmful co\_\_\_\_nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
32. in\_\_\_\_re with DNA synthesis *v.* to get involved in and prevent a process or activity from continuing
33. bacterial chl\_\_\_\_ll *n.* any of a group of green pigments found in photosynthetic organisms
34. vitamin and mi\_\_\_\_ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
35. in direct su\_\_\_\_ht *n.* the light emitted by the sun; the rays of the sun
36. nan\_\_\_\_ure material *n.* a structure that falls in between microscopic and molecular in size
37. am\_\_\_\_y a signal *v.* to enhance something, particularly sound or brightness
38. pa\_\_\_\_le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
39. wav\_\_\_\_th of light *n.* the distance between two points in the same phase in consecutive cycles of a wave

ANSWERS: 27. precise, 28. numerous, 29. purple, 30. microscopic, 31. compound, 32. interfere, 33. chlorophyll, 34. mineral, 35. sunlight, 36. nanostructure, 37. amplify, 38. particle, 39. wavelength

40. pretty sp\_\_\_\_\_le *n.* something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision
41. deeply re\_\_\_\_\_te with the consumers *v.* to be filled with a deep echoing sound
42. long-wav\_\_\_\_\_th laser *n.* the distance between two points in the same phase in consecutive cycles of a wave
43. iri\_\_\_\_\_nt color *adj.* varying in color when seen in different lights or from different angles
44. pr\_\_\_\_\_e analyses *adj.* sharply exact or accurate or delimited
45. vi\_\_\_\_\_ly identical *adv.* almost completely
46. infrared sp\_\_\_\_\_um *n.* an ordered array of colors into which a light beam can be split
47. em\_\_\_\_\_r of Rome *n.* the male ruler of an empire
48. nuclear ph\_\_\_\_\_s *n.* the science of matter and energy and their interactions
49. str\_\_\_\_\_al analyses *adj.* associated with the way on construction or organization of anything
50. oc\_\_\_y his time *v.* to consume all of someone's space, attention, or time
51. in\_\_\_\_\_ct with one another *v.* to communicate or react with somebody
52. h\_e change *n.* the quality of a color as determined by its dominant wavelength
53. ab\_\_\_b a shock *v.* to take in a fluid or other substance gradually

ANSWERS: 40. spectacle, 41. resonate, 42. wavelength, 43. iridescent, 44. precise, 45. virtually, 46. spectrum, 47. emperor, 48. physics, 49. structural, 50. occupy, 51. interact, 52. hue, 53. absorb

54. presidential co\_\_\_\_\_er *n.* the contestant you hope to defeat
55. charged pa\_\_\_\_\_le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
56. easily ima\_\_\_\_\_le *adj.* capable of being imagined
57. le\_\_\_\_\_er goods *adj.* not consumed or used at the end of something
58. obs\_\_\_\_\_on instrument *n.* the act or activity of carefully examining or monitoring something or someone
59. the abs\_\_\_\_\_on of photons *n.* a process in which one substance permeates another; a fluid permeates or is dissolved by a liquid or solid
60. a glare of su\_\_\_\_\_ht *n.* the light emitted by the sun; the rays of the sun
61. na\_\_\_\_\_ly regenerated forest *adv.* as might be expected; by natural manners
62. human ev\_\_\_\_\_on *n.* a gradual process of transformation of living things
63. a ch\_\_\_\_\_al compound *adj.* relating to or connected with chemistry;
64. sp\_\_\_\_\_le lens *n.* something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision
65. bu\_\_\_\_\_ly effect *n.* a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings

ANSWERS: 54. contender, 55. particle, 56. imaginable, 57. leftover, 58. observation, 59. absorption, 60. sunlight, 61. naturally, 62. evolution, 63. chemical, 64. spectacle, 65. butterfly

66. str\_\_\_\_\_al reorganization *adj.* associated with the way on construction or organization of anything
67. worst ima\_\_\_\_\_le case *adj.* capable of being imagined
68. a broad sp\_\_\_\_\_um of opinion *n.* an ordered array of colors into which a light beam can be split
69. fr\_\_\_\_\_cy band *n.* an ordered array of colors into which a light beam can be split
70. aquatic co\_\_\_\_\_nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
71. app\_\_\_\_\_te her feedback *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
72. beam of el\_\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
73. ex\_\_\_\_\_ve authority *adj.* not divided or shared with others
74. in\_\_\_\_\_ct directly with customers *v.* to communicate or react with somebody
75. the ra\_\_\_\_y of the event *n.* the condition or trait of being unusual; something that is unusual
76. trigger a re\_\_\_\_\_on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
77. starry ill\_\_\_\_\_ion *n.* light or source of light; the degree of visibility of your environment
78. ov\_\_\_\_\_er the suspect *v.* to conquer or establish complete control over someone by using superior strength

ANSWERS: 66. structural, 67. imaginable, 68. spectrum, 69. frequency, 70. compound, 71. appreciate, 72. electron, 73. exclusive, 74. interact, 75. rarity, 76. reaction, 77. illumination, 78. overpower



79. sc\_\_\_\_\_r seeds *v.* to cause to separate and go in different directions
80. photo with a ma\_\_e finish *adj.* having a surface without a shine, luster; non-glossy
81. an iri\_\_\_\_\_nt oil slick *adj.* varying in color when seen in different lights or from different angles
82. chemical re\_\_\_\_\_on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
83. co\_\_\_\_\_t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
84. oxygenic pho\_\_\_\_\_sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
85. laws of ph\_\_\_\_\_s *n.* the science of matter and energy and their interactions
86. in\_\_\_\_\_re in another country's affairs *v.* to get involved in and prevent a process or activity from continuing
87. car\_\_\_\_\_id pigment *n.* organic pigments of yellow, orange, and red that are produced by plants, algae, and various bacteria and fungus
88. assign a tr\_\_\_\_\_rk *n.* a name or symbol on a product that indicates it was made by a particular company and cannot be used without permission by other companies
89. app\_\_\_\_\_te the value *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone

ANSWERS: 79. scatter, 80. matte, 81. iridescent, 82. reaction, 83. convert, 84. photosynthesis, 85. physics, 86. interfere, 87. carotenoid, 88. trademark, 89. appreciate

90. genic com\_\_\_\_\_ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
91. ty\_\_\_\_\_l leader *adj.* having the usual characteristics or traits of a specific group of things
92. mic\_\_\_\_\_ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
93. deep pu\_\_\_e *adj.* of a color intermediate between red and blue
94. vi\_\_\_\_\_e stars *adj.* capable of being seen; or open to easy view
95. ev\_\_\_e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
96. car\_\_\_\_\_id biosynthesis *n.* organic pigments of yellow, orange, and red that are produced by plants, algae, and various bacteria and fungus
97. ev\_\_\_e *v.* to develop gradually, or to cause the development of something or someone gradually
98. three-dimensional nan\_\_\_\_\_ure *n.* a structure that falls in between microscopic and molecular in size
99. ab\_\_\_b energy *v.* to take in a fluid or other substance gradually
100. tr\_\_\_\_\_rk license *n.* a name or symbol on a product that indicates it was made by a particular company and cannot be used without permission by other companies
101. toxic ch\_\_\_\_\_als *adj.* relating to or connected with chemistry;

ANSWERS: 90. combination, 91. typical, 92. microscopic, 93. purple, 94. visible, 95. evolve, 96. carotenoid, 97. evolve, 98. nanostructure, 99. absorb, 100. trademark, 101. chemical

102. abs\_\_\_\_\_on energy *n.* a process in which one substance permeates another; a fluid permeates or is dissolved by a liquid or solid
103. process of pho\_\_\_\_\_sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
104. sc\_\_\_\_\_r around the internet *v.* to cause to separate and go in different directions
105. vi\_\_\_\_\_e by X-ray *adj.* capable of being seen; or open to easy view
106. oc\_\_\_\_y a position *v.* to consume all of someone's space, attention, or time
107. vi\_\_\_\_t quartz *adj.* between blue and purple in hue
108. the h\_es of a rainbow *n.* the quality of a color as determined by its dominant wavelength
109. co\_\_\_\_\_e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
110. bluish-vi\_\_\_\_t *adj.* between blue and purple in hue
111. na\_\_\_\_\_ly arising *adv.* as might be expected; by natural manners
112. book of great ra\_\_\_\_y *n.* the condition or trait of being unusual; something that is unusual
113. am\_\_\_\_\_y the effect *v.* to enhance something, particularly sound or brightness
114. com\_\_\_\_\_on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities

ANSWERS: 102. absorption, 103. photosynthesis, 104. scatter, 105. visible, 106. occupy, 107. violet, 108. hue, 109. confuse, 110. violet, 111. naturally, 112. rarity, 113. amplify, 114. combination

115. vi\_\_\_\_e with anger

v. to move or cause anything to move fast and in small increments from side to side

116. vi\_\_\_\_e at a regular frequency

v. to move or cause anything to move fast and in small increments from side to side

ANSWERS: 115. vibrate, 116. vibrate

## Session 3: Fill in the Blanks

1. This is the only \_\_\_\_\_ strategy.  
*adj.* capable of being imagined
2. Vitamin D is essential to assist the \_\_\_\_\_ of calcium from food.  
*n.* a process in which one substance permeates another; a fluid permeates or is dissolved by a liquid or solid
3. We were looking at a severe \_\_\_\_\_ indeed.  
*n.* the contestant you hope to defeat
4. The plant has a stunning \_\_\_\_\_ blossom.  
*adj.* of a color intermediate between red and blue
5. The outermost \_\_\_\_\_ shell determines the chemical properties of an atom.  
*n.* a tiny particle with the negative electrical charge
6. He should \_\_\_\_\_ more with his colleagues.  
*v.* to communicate or react with somebody
7. Eyeless fish \_\_\_\_\_ in dark caves.  
*v.* to develop gradually, or to cause the development of something or someone gradually
8. Common salt is a sodium and chlorine \_\_\_\_\_.  
*n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

ANSWERS: 1. imaginable, 2. absorption, 3. contender, 4. purple, 5. electron, 6. interact, 7. evolved, 8. compound

9. White color is made up of many different \_\_\_\_\_ of light.  
*n.* the distance between two points in the same phase in consecutive cycles of a wave
10. I want to \_\_\_\_\_ my sadness into strength.  
*v.* to have a talk with someone; (adjective) reversed in order, relation, or action
11. Red and \_\_\_\_\_ are opposites on the color spectrum.  
*adj.* between blue and purple in hue
12. During the flight, the wings of the plane \_\_\_\_\_.  
*v.* to move or cause anything to move fast and in small increments from side to side
13. She \_\_\_\_\_ over the tree root.  
*v.* to miss a step and fall or nearly fall; to walk unsteadily
14. Due to their \_\_\_\_\_ diamonds are expensive.  
*n.* the condition or trait of being unusual; something that is unusual
15. The sponge \_\_\_\_\_ water well.  
*v.* to take in a fluid or other substance gradually
16. The firm has grown into a large \_\_\_\_\_ manufacturing.  
*adj.* relating to or connected with chemistry;
17. The earthquake resulted in significant \_\_\_\_\_ destruction.  
*adj.* associated with the way on construction or organization of anything

ANSWERS: 9. wavelengths, 10. convert, 11. violet, 12. vibrate, 13. stumbled, 14. rarity, 15. absorbs, 16. chemical, 17. structural

18. We can calculate the position of the \_\_\_\_\_ statistically.  
*n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
19. The hunter's approach \_\_\_\_\_ the geese.  
*v.* to cause to separate and go in different directions
20. \_\_\_\_\_ provide two essential features for living things.  
*n.* organic pigments of yellow, orange, and red that are produced by plants, algae, and various bacteria and fungus
21. To achieve a warmer \_\_\_\_ add orange paint.  
*n.* the quality of a color as determined by its dominant wavelength
22. The robust economy of the country is based on its \_\_\_\_\_ resources.  
*n.* a solid inorganic substance occurring in nature having a definite chemical composition
23. This device displayed the speech \_\_\_\_\_ spectrographically.  
*n.* an ordered array of colors into which a light beam can be split
24. \_\_\_\_\_ all the parties signed the contract.  
*adv.* almost completely
25. \_\_\_\_\_ utilizes sunlight to create sugars.  
*n.* any of a group of green pigments found in photosynthetic organisms
26. These descriptions are based on a number of \_\_\_\_\_ assumptions.  
*adj.* amounting to a large indefinite number

ANSWERS: 18. particles, 19. scattered, 20. Carotenoids, 21. hue, 22. mineral, 23. spectrum, 24. Virtually, 25. Chlorophyll, 26. numerous

27. In \_\_\_\_\_ plants use carbon dioxide to feed themselves.  
*n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
28. He studied the \_\_\_\_\_ of radiation.  
*n.* the science of matter and energy and their interactions
29. Her remarks \_\_\_\_\_ the debate.  
*v.* to mistake one thing for another; to make somebody hard to understand
30. Her most recent fashion collection incorporates sparkling \_\_\_\_\_ materials.  
*adj.* varying in color when seen in different lights or from different angles
31. We would \_\_\_\_\_ an early reply.  
*v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
32. The sound \_\_\_\_\_ well in this theater.  
*v.* to be filled with a deep echoing sound
33. He enjoys collecting \_\_\_\_\_ specimens.  
*n.* a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings
34. This feature of the material is a result of its \_\_\_\_\_.  
*n.* a structure that falls in between microscopic and molecular in size
35. The content is \_\_\_\_\_ and informative for me.  
*adj.* sharply exact or accurate or delimited

ANSWERS: 27. photosynthesis, 28. physics, 29. confused, 30. iridescent, 31. appreciate, 32. resonates, 33. butterfly, 34. nanostructure, 35. precise



36. You might need to \_\_\_\_\_ this point.  
*v.* to enhance something, particularly sound or brightness
37. They study the \_\_\_\_\_ of the universe.  
*n.* a gradual process of transformation of living things
38. She could not help watching the sad \_\_\_\_\_.  
*n.* something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision
39. The body of his car has a \_\_\_\_\_ finish.  
*adj.* having a surface without a shine, luster; non-glossy
40. The condo offers \_\_\_\_\_ access to the beach.  
*adj.* not divided or shared with others
41. The skylight will give adequate \_\_\_\_\_ from above.  
*n.* light or source of light; the degree of visibility of your environment
42. We \_\_\_\_\_ to achieve more wages and safer working conditions.  
*v.* to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon
43. Your talking \_\_\_\_\_ with my work.  
*v.* to get involved in and prevent a process or activity from continuing
44. This process caused an \_\_\_\_\_ chemical reaction.  
*adj.* possessing or exerting or displaying energy

ANSWERS: 36. amplify, 37. evolution, 38. spectacle, 39. matte, 40. exclusive, 41. illumination, 42. strike, 43. interferes, 44. energetic

45. The \_\_\_\_\_ to the safe was a secret.

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

46. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.

*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

47. He was \_\_\_\_\_ gifted.

*adv.* as might be expected; by natural manners

48. The chef will make soup with the \_\_\_\_\_ ham bone.

*adj.* not consumed or used at the end of something

49. The oscillator hunts for the correct \_\_\_\_\_.

*n.* an ordered array of colors into which a light beam can be split

50. The young prince will soon \_\_\_\_\_ the throne.

*v.* to consume all of someone's space, attention, or time

51. This artwork is \_\_\_\_\_ of her work.

*adj.* having the usual characteristics or traits of a specific group of things

52. The shooter was eventually \_\_\_\_\_ and arrested by police.

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

53. In the hospital, she will remain under constant \_\_\_\_\_.

*n.* the act or activity of carefully examining or monitoring something or someone

ANSWERS: 45. combination, 46. microscopic, 47. naturally, 48. leftover, 49. frequency, 50. occupy, 51. typical, 52. overpowered, 53. observation

54. The \_\_\_\_\_ once lived in the vast palace.

*n.* the male ruler of an empire

55. My home is easily \_\_\_\_\_ from the shore.

*adj.* capable of being seen; or open to easy view

56. Radiation from \_\_\_\_\_ has a different wavelength.

*n.* the light emitted by the sun; the rays of the sun

57. There was a chemical \_\_\_\_\_ of the lime with the groundwater.

*n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

58. The company's logo is a registered \_\_\_\_\_ on a global scale.

*n.* a name or symbol on a product that indicates it was made by a particular company and cannot be used without permission by other companies

ANSWERS: 54. Emperor, 55. visible, 56. sunlight, 57. reaction, 58. trademark