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Vocabulary Builder Reference from...

Hugh Herr: How we'll become cyborgs and extend human potential | TED Talk

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

Advanced Words Only

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Session 1: Word List

bionic

adj. relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original

(1) **bionic** exoskeleton, (2) **bionic** technology

The soldier was fitted with a **bionic** arm after losing him in combat.

augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym: boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity

Economic factors and monetary policy **augmented** inflation.

amputate

v. to cut off a part of the body, especially by surgery

synonym: cut off, cut away

(1) **amputate** both legs, (2) **amputate** below the knee

Finally, they had to **amputate** his foot to free him from the wrecked car.

frostbite

n. a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation

synonym : cryopathy, chilblains, ice burn

(1) **frostbite** symptoms, (2) **frostbite** on the hand

The athlete had to quit the race due to severe **frostbite** on his feet.

microprocessor

n. a computer component containing all the functions of the central processing unit

synonym : IC, chip, microchip

(1) **microprocessor** chip, (2) dedicated **microprocessor**

As a result of improvements in **microprocessor** performance, many consumer electronics products are now Internet-connected.

tendon

n. a strong, fibrous cord of tissue that connects muscle to bone

synonym : tissue, sinew, ligament

(1) **tendon** grafting, (2) **tendon** collagen

Tendon injuries are common among athletes.

actuate

v. to cause a machine or equipment to start to work

synonym : motivate, spark, drive

(1) **actuate** the circuits, (2) **actuate** a parking brake

A desire for success **actuated** her.

cyborg

n. a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices

synonym : android, bionic, half-human

(1) **cyborg** technology, (2) **cyborg** cop

The idea of a superhuman **cyborg** army is a popular trope in action movies.

decode

v. to convert something, such as a message or piece of information, from a specific form into one that you can understand

synonym : decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences
The software could **decode** the encrypted data and reveal the hidden information.

bidirectional

adj. capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions

synonym: two-way, reciprocal, dual

(1) **bidirectional** communication, (2) **bidirectional** street
The **bidirectional** flow of information allows for efficient communication between the two departments.

contemplate

v. to think about a possible future action or to think about something for a long time thoughtfully

synonym: think over, ponder, consider

(1) **contemplate** a marriage, (2) **contemplated** leaving school

I recently **contemplated** dropping out of school and getting a full-time job.

lifeless

adj. without life; dead

synonym: inanimate, inert, motionless

(1) fall **lifeless**, (2) a **lifeless** corpse

The plant had a **lifeless** appearance, indicating that it was not getting enough water.

blur

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

synonym: smudge, smear, fuzz

(1) **blur** image, (2) motion **blur**

The camera's focus was off, and the image was a **blur** of colors and shapes.

biomolecule

n. a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological

processes such as metabolism, energy production, and genetic information transfer

synonym: biochemical, molecule, protein

(1) **biomolecule** structure, (2) protein **biomolecule**

DNA is a complex **biomolecule** that contains the genetic information of an organism.

sculpt

v. to create a work of art by carving, casting, or other shaping techniques

synonym: carve, mold, shape

(1) **sculpt** an image, (2) **sculpt** prototype

He spent hours every day **sculpting** figures out of clay.

regenerative

adj. tending to regrow or restore lost or injured tissue

synonym: rejuvenating, restorative, healing

(1) **regenerative** medicine, (2) **regenerative** therapy

The **regenerative** properties of stem cells make them a promising area of research.

amputation

n. the act of cutting off a part of the body surgically

(1) **amputation** of leg, (2) hand **amputation**

Amputation of the limb is a last resort for the patient.

proprioception

n. the sense of the relative position of one's body parts and their movement, regulated by receptors in the muscles, tendons, and joints; the ability to sense where one's body is in space without relying on vision

synonym: body awareness, kinesthesia, sense of movement

(1) improve **proprioception**, (2) **proprioception** training

Athletes rely heavily on **proprioception** to perform complex movements with precision.

prosthetic

adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

(1) have **prosthetic** arms, (2) **prosthetic** limbs

New **prosthetic** joints are less prone to metal poisoning.

phantom

n. a ghost or a spirit of a dead person; something existing only in your imagination or perception

synonym: ghost, spirit, apparition

(1) a **phantom** company, (2) **phantom** limb pain

The police frantically searched for clues to the **phantom** killer.

agony

n. extreme physical or mental pain or suffering, often prolonged or intense

synonym: anguish, torment, suffering

(1) severe **agony**, (2) emotional **agony**

The athlete fell to the ground in **agony** after injuring their ankle.

antagonist

n. a person, group, or force that opposes or works against the protagonist, or the main character, in a story or drama; a person or thing that is in direct opposition or conflict with another person or group

synonym: opponent, rival, adversary

(1) arch-nemesis **antagonist**, (2) literary **antagonist**

The **antagonist** in the movie is a corrupt government official who obstructed the protagonist's mission.

myocardial

adj. relating to the muscular tissue of the heart

synonym: cardiac, heart-related, ventricular

(1) **myocardial** infarction, (2) **myocardial** fibrosis

The physical examination revealed no abnormalities in the patient's **myocardial** structure.

residuum

n. a residue or remainder; a small amount or trace left behind after a process or event

synonym: remainder, leftover, residue

(1) **residuum** analysis, (2) the **residuum** of the demolished building

The lab tested the soil samples and found a high concentration of chemical **residuum**.

puncture

n. a small hole or wound made by piercing, such as with a needle, nail, or pointed object

synonym: piercing, prick, hole

(1) bicycle **puncture**, (2) needle **puncture**

The tire had a **puncture** and needed to be replaced.

proWess

n. exceptional or superior skill or ability, particularly in a physical or athletic context; valorous bravery or courage

synonym: expertise, skill, ability

(1) economic **proWess**, (2) intellectual **proWess**

The athlete's **proWess** in her sport earned her many accolades.

pulley

n. a wheel or set of wheels with a grooved rim around which a cord or rope runs, used to change the direction or point of application of a force, especially to lift heavy objects

synonym: block and tackle, hoist, lift

(1) **pulley** system, (2) movable **pulley**

The construction worker used a fixed **pulley** to lift the heavy equipment to the top floor.

tibia

n. the larger of the two bones in the lower leg, located between the knee and ankle

synonym: shinbone, calf bone, leg bone

(1) broken **tibia**, (2) **tibia** ligament

A stress fracture in the **tibia** can be caused by overuse or repetitive force on the bone.

reconnect

v. to connect again after a break or interruption

synonym: reopen, rejoin, link up

(1) **reconnect** a telephone, (2) **reconnect** with family

After a long period of estrangement, they **reconnected** with each other.

reestablish

v. to establish again or anew; to restore something that was lost or disrupted, often relating to an organization,

relationship, or system

synonym: restore, reconstitute, rehabilitate

(1) **reestablish** ties, (2) **reestablish** trust

We need to **reestablish** our relationship after our argument.

blindfold

n. a covering for the eyes used to block out light, particularly one used as a means of sensory deprivation or as a form of punishment or revenge; (verb) to cover someone's eyes with a blindfold or similar material, often as a way of preventing them from seeing something or to make a game or activity more challenging

(1) **blindfold** game, (2) **blindfold** challenge

The doctor administered a **blindfold** test to evaluate the patient's sense of touch.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

biomechanics

n. the study and application of mechanical principles to biological systems, especially as related to human movement and the physical performance of athletes and performers

(1) **biomechanics** of movement, (2) **biomechanics** research

The study of **biomechanics** is important in understanding the physical implications of movement and sports performance.

mediate

v. to try to bring about an agreement or understanding between people who are in conflict

synonym: arbitrate, reconcile, intervene

(1) **mediate** allergic reaction, (2) **mediate** a negotiation

The teacher had to **mediate** a disagreement between two students over a stolen pencil.

involuntary

adj. acting or done without or against one's will

synonym : coerced, forced, automatic

(1) **involuntary** manslaughter, (2) **involuntary** muscles

The drug's side effects can include **involuntary** loss of urine.

reflex

n. an automatic and unthinking response to a particular stimulus; a physical reaction to external stimuli

synonym : reaction, response, instinct

(1) **reflex** test, (2) knee **reflex**

My leg kicked involuntarily when the doctor tapped my knee with the **reflex** hammer.

intricacy

n. the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements

synonym : complexity, intricateness, elaboration

(1) the **intricacy** of the design, (2) legal **intricacy**

The clockwork mechanism of the antique watch showed incredible **intricacy**.

ascent

n. the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards

synonym : climb, rise, hike

(1) spiritual **ascent**, (2) the **ascent** of a rocket

The hikers experienced a difficult **ascent** to the summit due to the steep and rocky terrain.

descend

v. to move downward and lower; to come from, or to be connected by a relationship of blood

synonym : dip, drop, come down

(1) **descend** a steep hill, (2) **descend** by elevator

She was **descended** from an old Italian noble family.

tread

v. to step or walk on something

synonym : step, walk, pace

(1) **tread** water, (2) **tread** a similar path

He **treads** carefully on the slippery ice.

downstairs

adv. on or to a lower or ground floor of a building

synonym : below

(1) creep **downstairs**, (2) escort him **downstairs**

Please get the desk **downstairs**.

neurological

adj. of or relating to the science of neurology or the nervous system

synonym : nervous, neural, brain-related

(1) fever with **neurological** signs, (2) **neurological** symptoms

The patient was diagnosed with a **neurological** disorder affecting their motor skills.

hypothesize

v. to form or present a theory or explanation without sufficient evidence; to speculate

synonym : speculate, theorize, conjecture

(1) **hypothesize** as to outcomes, (2) **hypothesize** what could have happened

Scientists **hypothesize** that the new fish species evolved to survive in deep-sea environments.

hesitant

adj. unsure or uncertain about what to do or how to act; reluctant or unwilling to take action or make a decision

synonym : indecisive, uncertain, reluctant

(1) **hesitant** response, (2) **hesitant** to take action

She was **hesitant** to speak in public but eventually overcame her fear.

remap

v. to reassign or rearrange the mapping or correlation of one set of data or information onto another

synonym : rearrange, reconfigure, reassign

(1) **remap** memory, (2) **remap** software

I need to **remap** the keys on my keyboard to make it more comfortable for typing.

redefine

v. to change the meaning or interpretation of something; to make people think about something in a new or different way

synonym: reconsider, reformulate, alter

(1) **redefine** customer experience, (2) **redefine** our role

The video telephony application has **redefined** the way we work.

exoskeleton

n. a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab

synonym: chitin, exocuticle, carapace

(1) **exoskeleton** suit, (2) robotic **exoskeleton**

The **exoskeleton** of the crab protects it from predators and environmental changes.

superhero

n. a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public

(1) **superhero** movies, (2) **superhero** comics

Superman is a classic **superhero** known for his superhuman strength and flying ability.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

anthropomorphic

adj. describing or relating to the attribution of human characteristics to non-human entities

synonym: human-like

(1) **anthropomorphic** agent, (2) **anthropomorphic** design

The **anthropomorphic** robot was designed to have a human-like appearance.

skyward

adv. in or toward the sky; directed or oriented upward

synonym : upward, heavenward

(1) look **skyward**, (2) gaze **skyward**

The rocket soared **skyward**, leaving behind a trail of smoke and fire.

twilight

n. the soft, diffused light from the sky when the sun is below the horizon, either from sunrise to sunrise or sunset to sunset

synonym : dusk, sunset, gloaming

(1) **twilight** sky, (2) **twilight** of an era

The sky was a beautiful pink and orange color at **twilight**.

recognizable

adj. easy to become aware of or identify

synonym : noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark

His car was easily **recognizable** in the parking lot.

morphology

n. the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another

synonym : structure, form, anatomy

(1) **morphology** of a language, (2) cellular **morphology**

The **morphology** of rocks can reveal clues about their geological history.

soar

v. to fly or rise very high or to a great height, often with great grace or ease

synonym : fly, rise, ascend

(1) **soar** in popularity, (2) **soar** to new heights

The bird **soared** through the sky, and its wings spread wide.

Session 2: Spelling

1. ant_____hic agent *adj.* describing or relating to the attribution of human characteristics to non-human entities
2. reg_____ive therapy *adj.* tending to regrow or restore lost or injured tissue
3. te___n grafting *n.* a strong, fibrous cord of tissue that connects muscle to bone
4. hyp_____ze as to outcomes *v.* to form or present a theory or explanation without sufficient evidence; to speculate
5. he_____nt response *adj.* unsure or uncertain about what to do or how to act; reluctant or unwilling to take action or make a decision
6. ac_____e the circuits *v.* to cause a machine or equipment to start to work
7. tw_____ht of an era *n.* the soft, diffused light from the sky when the sun is below the horizon, either from sunrise to sunrise or sunset to sunset
8. arch-nemesis ant_____st *n.* a person, group, or force that opposes or works against the protagonist, or the main character, in a story or drama; a person or thing that is in direct opposition or conflict with another person or group
9. au_____t the reality *v.* to increase the size, extent, quantity, etc. of something by adding something to it

ANSWERS: 1. anthropomorphic, 2. regenerative, 3. tendon, 4. hypothesize, 5. hesitant, 6. actuate, 7. twilight, 8. antagonist, 9. augment

10. tr__d a similar path *v.* to step or walk on something
11. fr_____te on the hand *n.* a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation
12. motion b__r *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
13. bi___c exoskeleton *adj.* relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
14. economic pr____s *n.* exceptional or superior skill or ability, particularly in a physical or athletic context; valorous bravery or courage
15. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager
16. ant_____hic design *adj.* describing or relating to the attribution of human characteristics to non-human entities
17. ac____e a parking brake *v.* to cause a machine or equipment to start to work
18. rec_____ble landmark *adj.* easy to become aware of or identify
19. ree_____sh ties *v.* to establish again or anew; to restore something that was lost or disrupted, often relating to an organization, relationship, or system

ANSWERS: 10. tread, 11. frostbite, 12. blur, 13. bionic, 14. prowess, 15. excite, 16. anthropomorphic, 17. actuate, 18. recognizable, 19. reestablish

28. ability to de___e the differences *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
29. hyp_____ze what could have happened *v.* to form or present a theory or explanation without sufficient evidence; to speculate
30. mor_____gy of a language *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
31. pu___y system *n.* a wheel or set of wheels with a grooved rim around which a cord or rope runs, used to change the direction or point of application of a force, especially to lift heavy objects
32. re_____ct a telephone *v.* to connect again after a break or interruption
33. s__r to new heights *v.* to fly or rise very high or to a great height, often with great grace or ease
34. bl_____ld challenge *n.* a covering for the eyes used to block out light, particularly one used as a means of sensory deprivation or as a form of punishment or revenge; (verb) to cover someone's eyes with a blindfold or similar material, often as a way of preventing them from seeing something or to make a game or activity more challenging

ANSWERS: 28. decode, 29. hypothesize, 30. morphology, 31. pulley, 32. reconnect, 33. soar, 34. blindfold

35. literary ant_____st *n.* a person, group, or force that opposes or works against the protagonist, or the main character, in a story or drama; a person or thing that is in direct opposition or conflict with another person or group
36. con_____te a marriage *v.* to think about a possible future action or to think about something for a long time thoughtfully
37. bid_____nal communication *adj.* capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions
38. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
39. inv_____ry manslaughter *adj.* acting or done without or against one's will
40. me_____e a negotiation *v.* to try to bring about an agreement or understanding between people who are in conflict
41. robotic exo_____on *n.* a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
42. dedicated mic_____sor *n.* a computer component containing all the functions of the central processing unit
43. neu_____cal symptoms *adj.* of or relating to the science of neurology or the nervous system

ANSWERS: 35. antagonist, 36. contemplate, 37. bidirectional, 38. humming, 39. involuntary, 40. mediate, 41. exoskeleton, 42. microprocessor, 43. neurological

44. spiritual as___t *n.* the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards
45. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
46. the re____um of the demolished building *n.* a residue or remainder; a small amount or trace left behind after a process or event
47. bi___c technology *adj.* relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
48. bl_____ld game *n.* a covering for the eyes used to block out light, particularly one used as a means of sensory deprivation or as a form of punishment or revenge; (verb) to cover someone's eyes with a blindfold or similar material, often as a way of preventing them from seeing something or to make a game or activity more challenging
49. de____d by elevator *v.* to move downward and lower; to come from, or to be connected by a relationship of blood
50. de____d a steep hill *v.* to move downward and lower; to come from, or to be connected by a relationship of blood

ANSWERS: 44. ascent, 45. excite, 46. residuum, 47. bionic, 48. blindfold, 49. descend, 50. descend

51. hu____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
52. bio_____ics of movement *n.* the study and application of mechanical principles to biological systems, especially as related to human movement and the physical performance of athletes and performers
53. te___n collagen *n.* a strong, fibrous cord of tissue that connects muscle to bone
54. myo_____al infarction *adj.* relating to the muscular tissue of the heart
55. bicycle pu____re *n.* a small hole or wound made by piercing, such as with a needle, nail, or pointed object
56. he____nt to take action *adj.* unsure or uncertain about what to do or how to act; reluctant or unwilling to take action or make a decision
57. au____t immunity *v.* to increase the size, extent, quantity, etc. of something by adding something to it
58. amp_____on of leg *n.* the act of cutting off a part of the body surgically
59. tr__d water *v.* to step or walk on something
60. escort him dow_____rs *adv.* on or to a lower or ground floor of a building
61. sc___t prototype *v.* to create a work of art by carving, casting, or other shaping techniques
62. gaze sk____d *adv.* in or toward the sky; directed or oriented upward

ANSWERS: 51. humming, 52. biomechanics, 53. tendon, 54. myocardial, 55. puncture, 56. hesitant, 57. augment, 58. amputation, 59. tread, 60. downstairs, 61. sculpt, 62. skyward

63. am_____te below the knee *v.* to cut off a part of the body, especially by surgery
64. the as____t of a rocket *n.* the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards
65. movable pu____y *n.* a wheel or set of wheels with a grooved rim around which a cord or rope runs, used to change the direction or point of application of a force, especially to lift heavy objects
66. re_____ct with family *v.* to connect again after a break or interruption
67. sc____t an image *v.* to create a work of art by carving, casting, or other shaping techniques
68. the in_____cy of the design *n.* the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
69. needle pu_____re *n.* a small hole or wound made by piercing, such as with a needle, nail, or pointed object
70. a ph_____m company *n.* a ghost or a spirit of a dead person; something existing only in your imagination or perception
71. de____e a message *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand

ANSWERS: 63. amputate, 64. ascent, 65. pulley, 66. reconnect, 67. sculpt, 68. intricacy, 69. puncture, 70. phantom, 71. decode

72. have pro_____ic arms *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
73. su_____ro comics *n.* a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public
74. am_____te both legs *v.* to cut off a part of the body, especially by surgery
75. broken ti__a *n.* the larger of the two bones in the lower leg, located between the knee and ankle
76. con_____ted leaving school *v.* to think about a possible future action or to think about something for a long time thoughtfully
77. a li_____ss corpse *adj.* without life; dead
78. severe ag__y *n.* extreme physical or mental pain or suffering, often prolonged or intense
79. re_____ne customer experience *v.* to change the meaning or interpretation of something; to make people think about something in a new or different way
80. knee re___x *n.* an automatic and unthinking response to a particular stimulus; a physical reaction to external stimuli
81. cy___g technology *n.* a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices
82. improve pro_____ion *n.* the sense of the relative position of one's body parts and their movement, regulated by receptors in the muscles, tendons, and joints; the ability to sense where one's body is in space without relying on vision

ANSWERS: 72. prosthetic, 73. superhero, 74. amputate, 75. tibia, 76. contemplate, 77. lifeless, 78. agony, 79. redefine, 80. reflex, 81. cyborg, 82. proprioception

83. bio_____le structure *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
84. to a rec_____ble degree *adj.* easy to become aware of or identify
85. b__r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
86. re_____ne our role *v.* to change the meaning or interpretation of something; to make people think about something in a new or different way
87. fr_____te symptoms *n.* a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation
88. look sk_____d *adv.* in or toward the sky; directed or oriented upward
89. reg_____ive medicine *adj.* tending to regrow or restore lost or injured tissue
90. bio_____ics research *n.* the study and application of mechanical principles to biological systems, especially as related to human movement and the physical performance of athletes and performers

ANSWERS: 83. biomolecule, 84. recognizable, 85. blur, 86. redefine, 87. frostbite, 88. skyward, 89. regenerative, 90. biomechanics

91. su_____ro movies *n.* a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public
92. re___x test *n.* an automatic and unthinking response to a particular stimulus; a physical reaction to external stimuli
93. ti__a ligament *n.* the larger of the two bones in the lower leg, located between the knee and ankle
94. mic_____sor chip *n.* a computer component containing all the functions of the central processing unit
95. pro_____ic limbs *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
96. bid_____nal street *adj.* capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions
97. re__p memory *v.* to reassign or rearrange the mapping or correlation of one set of data or information onto another
98. cellular mor_____gy *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
99. exo_____on suit *n.* a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab

ANSWERS: 91. superhero, 92. reflex, 93. tibia, 94. microprocessor, 95. prosthetic, 96. bidirectional, 97. remap, 98. morphology, 99. exoskeleton

100. inv_____ry muscles	<i>adj.</i> acting or done without or against one's will
101. legal in_____cy	<i>n.</i> the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
102. emotional ag__y	<i>n.</i> extreme physical or mental pain or suffering, often prolonged or intense
103. creep dow_____rs	<i>adv.</i> on or to a lower or ground floor of a building
104. me_____e allergic reaction	<i>v.</i> to try to bring about an agreement or understanding between people who are in conflict
105. intellectual pr_____s	<i>n.</i> exceptional or superior skill or ability, particularly in a physical or athletic context; valorous bravery or courage
106. re__p software	<i>v.</i> to reassign or rearrange the mapping or correlation of one set of data or information onto another
107. ph_____m limb pain	<i>n.</i> a ghost or a spirit of a dead person; something existing only in your imagination or perception
108. tw_____ht sky	<i>n.</i> the soft, diffused light from the sky when the sun is below the horizon, either from sunrise to sunrise or sunset to sunset
109. hand amp_____on	<i>n.</i> the act of cutting off a part of the body surgically
110. s__r in popularity	<i>v.</i> to fly or rise very high or to a great height, often with great grace or ease

ANSWERS: 100. involuntary, 101. intricacy, 102. agony, 103. downstairs, 104. mediate, 105. prowess, 106. remap, 107. phantom, 108. twilight, 109. amputation, 110. soar

ANSWERS:

Session 3: Fill in the Blanks

1. The rocket soared _____ leaving behind a trail of smoke and fire.
adv. in or toward the sky; directed or oriented upward
2. _____ of the limb is a last resort for the patient.
n. the act of cutting off a part of the body surgically
3. A desire for success _____ her.
v. to cause a machine or equipment to start to work
4. The clockwork mechanism of the antique watch showed incredible _____.
n. the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
5. The _____ in the movie is a corrupt government official who obstructed the protagonist's mission.
n. a person, group, or force that opposes or works against the protagonist, or the main character, in a story or drama; a person or thing that is in direct opposition or conflict with another person or group
6. The hikers experienced a difficult _____ to the summit due to the steep and rocky terrain.
n. the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards
7. The lab tested the soil samples and found a high concentration of chemical _____.
n. a residue or remainder; a small amount or trace left behind after a process or event

ANSWERS: 1. skyward, 2. Amputation, 3. actuated, 4. intricacy, 5. antagonist, 6. ascent, 7. residuum

8. Economic factors and monetary policy _____ inflation.
- v. to increase the size, extent, quantity, etc. of something by adding something to it
9. I recently _____ dropping out of school and getting a full-time job.
- v. to think about a possible future action or to think about something for a long time thoughtfully
10. The construction worker used a fixed _____ to lift the heavy equipment to the top floor.
- n. a wheel or set of wheels with a grooved rim around which a cord or rope runs, used to change the direction or point of application of a force, especially to lift heavy objects
11. The _____ robot was designed to have a human-like appearance.
- adj. describing or relating to the attribution of human characteristics to non-human entities
12. The soldier was fitted with a _____ arm after losing him in combat.
- adj. relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
13. New _____ joints are less prone to metal poisoning.
- adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
14. We need to _____ our relationship after our argument.
- v. to establish again or anew; to restore something that was lost or disrupted, often relating to an organization, relationship, or system

ANSWERS: 8. augmented, 9. contemplated, 10. pulley, 11. anthropomorphic, 12. bionic, 13. prosthetic, 14. reestablish

15. The bird _____ through the sky, and its wings spread wide.

v. to fly or rise very high or to a great height, often with great grace or ease

16. After a long period of estrangement, they _____ with each other.

v. to connect again after a break or interruption

17. His car was easily _____ in the parking lot.

adj. easy to become aware of or identify

18. She was _____ from an old Italian noble family.

v. to move downward and lower; to come from, or to be connected by a relationship of blood

19. The athlete's _____ in her sport earned her many accolades.

n. exceptional or superior skill or ability, particularly in a physical or athletic context; valorous bravery or courage

20. She was _____ to speak in public but eventually overcame her fear.

adj. unsure or uncertain about what to do or how to act; reluctant or unwilling to take action or make a decision

21. The software could _____ the encrypted data and reveal the hidden information.

v. to convert something, such as a message or piece of information, from a specific form into one that you can understand

22. The _____ of the crab protects it from predators and environmental changes.

n. a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab

ANSWERS: 15. soared, 16. reconnected, 17. recognizable, 18. descended, 19. prowess, 20. hesitant, 21. decode, 22. exoskeleton

23. The police frantically searched for clues to the _____ killer.
n. a ghost or a spirit of a dead person; something existing only in your imagination or perception
24. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager
25. Scientists _____ that the new fish species evolved to survive in deep-sea environments.
v. to form or present a theory or explanation without sufficient evidence; to speculate
26. The drug's side effects can include _____ loss of urine.
adj. acting or done without or against one's will
27. I need to _____ the keys on my keyboard to make it more comfortable for typing.
v. to reassign or rearrange the mapping or correlation of one set of data or information onto another
28. Finally, they had to _____ his foot to free him from the wrecked car.
v. to cut off a part of the body, especially by surgery
29. The athlete fell to the ground in _____ after injuring their ankle.
n. extreme physical or mental pain or suffering, often prolonged or intense
30. The doctor administered a _____ test to evaluate the patient's sense of touch.
n. a covering for the eyes used to block out light, particularly one used as a means of sensory deprivation or as a form of punishment or revenge; (verb) to cover someone's eyes with a blindfold or similar material, often as a way of preventing them from seeing something or to make a game or activity more challenging

ANSWERS: 23. phantom, 24. excited, 25. hypothesize, 26. involuntary, 27. remap, 28. amputate, 29. agony, 30. blindfold

31. The video telephony application has _____ the way we work.

- v.* to change the meaning or interpretation of something; to make people think about something in a new or different way

32. He spent hours every day _____ figures out of clay.

- v.* to create a work of art by carving, casting, or other shaping techniques

33. DNA is a complex _____ that contains the genetic information of an organism.

- n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

34. The patient was diagnosed with a _____ disorder affecting their motor skills.

- adj.* of or relating to the science of neurology or the nervous system

35. The _____ of the bees filled the air as she walked through the garden.

- adj.* producing a continuous, low, vibrating sound like that of the bee

36. The _____ properties of stem cells make them a promising area of research.

- adj.* tending to regrow or restore lost or injured tissue

37. The teacher had to _____ a disagreement between two students over a stolen pencil.

- v.* to try to bring about an agreement or understanding between people who are in conflict

ANSWERS: 31. redefined, 32. sculpting, 33. biomolecule, 34. neurological, 35. humming, 36. regenerative, 37. mediate

38. The _____ flow of information allows for efficient communication between the two departments.

adj. capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions

39. The tire had a _____ and needed to be replaced.

n. a small hole or wound made by piercing, such as with a needle, nail, or pointed object

40. The camera's focus was off, and the image was a _____ of colors and shapes.

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

41. My leg kicked involuntarily when the doctor tapped my knee with the _____ hammer.

n. an automatic and unthinking response to a particular stimulus; a physical reaction to external stimuli

42. Superman is a classic _____ known for his superhuman strength and flying ability.

n. a fictional hero who possesses extraordinary powers and abilities and is dedicated to protecting the public

43. The sky was a beautiful pink and orange color at _____.

n. the soft, diffused light from the sky when the sun is below the horizon, either from sunrise to sunrise or sunset to sunset

44. The study of _____ is important in understanding the physical implications of movement and sports performance.

n. the study and application of mechanical principles to biological systems, especially as related to human movement and the physical performance of athletes and performers

ANSWERS: 38. bidirectional, 39. puncture, 40. blur, 41. reflex, 42. superhero, 43. twilight, 44. biomechanics

45. The _____ of rocks can reveal clues about their geological history.
- n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
46. He _____ carefully on the slippery ice.
- v.* to step or walk on something
47. _____ injuries are common among athletes.
- n.* a strong, fibrous cord of tissue that connects muscle to bone
48. As a result of improvements in _____ performance, many consumer electronics products are now Internet-connected.
- n.* a computer component containing all the functions of the central processing unit
49. The idea of a superhuman _____ army is a popular trope in action movies.
- n.* a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices
50. The plant had a _____ appearance, indicating that it was not getting enough water.
- adj.* without life; dead
51. The athlete had to quit the race due to severe _____ on his feet.
- n.* a medical condition that occurs when the skin and underlying tissue freeze due to exposure to extremely cold temperatures, resulting in damage or loss of tissue and, in severe cases, amputation
52. A stress fracture in the _____ can be caused by overuse or repetitive force on the bone.
- n.* the larger of the two bones in the lower leg, located between the knee and ankle

ANSWERS: 45. morphology, 46. treads, 47. Tendon, 48. microprocessor, 49. cyborg, 50. lifeless, 51. frostbite, 52. tibia

53. Please get the desk _____.

adv. on or to a lower or ground floor of a building

54. Athletes rely heavily on _____ to perform complex movements with precision.

n. the sense of the relative position of one's body parts and their movement, regulated by receptors in the muscles, tendons, and joints; the ability to sense where one's body is in space without relying on vision

55. The physical examination revealed no abnormalities in the patient's _____ structure.

adj. relating to the muscular tissue of the heart

ANSWERS: 53. downstairs, 54. proprioception, 55. myocardial