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Vocabulary Builder Reference from...

Boaz Almog: The levitating superconductor | TED

Talk

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

_superconductor



All Words

IMPORTANT

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Session 1: Word List

phenomenon

 something that exists and can be perceptible, especially one that is not fully understood

synonym: marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**

A rainbow is a natural **phenomenon**.

quantum

- n. the smallest amount or unit of something, especially (electromagnetic) energy
- (1) probabilistic **quantum** theory, (2) laws of **quantum** mechanics

Big techs are now eager to develop **quantum** computers.

levitate

v. to rise or float in the air without apparent support, often in a magical or supernatural manner

synonym: hover, float, soar

(1) levitate objects, (2) levitate for a few seconds

The magician appeared to **levitate** off the stage, stunning the audience.

superconductor

n. a material that conducts electricity with zero resistance when cooled to very low temperatures or when subjected to high pressure or strong magnetic fields; a substance with the unique ability to transmit electric

current with no energy loss

synonym: zero-resistance material

(1) **superconductor** material, (2) high-temperature **superconductor**

The development of high-temperature **superconductors** revolutionized the field of electrical engineering.

critic

 someone who expresses opinions about the quality of books, music, etc.

synonym: pundit, analyst, attacker

(1) art critic, (2) severe critic

Advocates for legal reform hear less harsh words from their **critics**.

temperature

- n. the degree of hotness or coldness of a thing or placesynonym: climate, warmth, degree
- (1) extreme **temperatures**, (2) the atmospheric **temperature**

Cities around the world set records for highest **temperatures** this summer.

discovery

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

synonym: finding, uncovering, detection

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

Her research team made an important discovery.

technological

adj. based on scientific and industrial progress synonym: specialized, technical

(1) **technological** advancement, (2) **technological** policy **Technological** advances have disrupted many industries.

advancement

n. the development, improvement, or progress of something

synonym: progression, breakthrough, improvement

(1) **advancement** of knowledge, (2) career **advancement** Competition between countries resulted in fast technological **advancement**.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym: show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery How can you **demonstrate** that the earth is a sphere?

define

 to state or explain precisely the nature, scope, or meaning of something

synonym: characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering Actuators convert **electrical** pulses into motion.

resistance

n. the act of defending oneself from an aggressor or refusing to accept something

synonym: opposition, antagonism, defiance

(1) resistance movement, (2) resistance to insulin

The bill to increase the consumption tax had passed despite much **resistance** from the public.

expulsion

 the act of forcing someone to leave a place or organization, especially permanently

synonym: ejection, banishment, exile

(1) expulsion of gas, (2) forceful expulsion

The ambassador's **expulsion** was a sign of the deteriorating relations between the two countries.

magnetic

adj. having the properties of attracting or repelling certain materials containing iron or steel

synonym: attractive, drawing, hypnotic

(1) magnetic field, (2) a magnetic tape

The **magnetic** force of the earth keeps our planet spinning.

interior

 the inside or inner part of something; the space within the walls of a building

synonym: inner, inside, internal

(1) **interior** decoration, (2) plenty of **interior** space

The painter focused on the moody **interiors** of abandoned buildings in his work.

complicated

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

synonym: complex, convoluted, intricate

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

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

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

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.

collide

v. to hit something violently when moving

synonym: clash, slam, contradict

(1) **collide** head-on, (2) **collide** in midair The interests of the two countries **collide**.

atom

 the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym: particle, element, fraction

(1) oxygen atom, (2) neutral hydrogen atomsThe outermost electron shell of an atom determines its

chemical characteristics.

collision

 an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict

synonym: crash, impact, smash

(1) **collision** detection, (2) come into **collision** with my friend

The **collision** of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.

dissipate

v. to disperse or scatter widely

synonym: scatter, disperse, evaporate

(1) dissipate heat, (2) dissipate stress

The fog **dissipated**, and the air cleared up.

dissipation

 the act of dispersing or dissolving, often used to describe the dissipation of energy or the act of wasting or squandering resources

synonym: wastefulness, dispersal, decadence

(1) energy dissipation, (2) heat dissipation

His reckless spending and partying led to his family's fortune **dissipation**.

remarkable

adj. worthy of attention because unusual or special synonym: outstanding, exceptional, extraordinary

(1) remarkable achievement, (2) the remarkable breadth of

knowledge

The election was a **remarkable** success for the Whigs.

physics

- n. the science of matter and energy and their interactions
- (1) nuclear physics, (2) laws of physics

He studied the **physics** of radiation.

friction

n. the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects

synonym: rub, scrape, resistance

(1) friction force, (2) surface friction

The **friction** between the two countries was causing tension.

expel

v. to officially force someone to leave a school, organization, or country

synonym: deport, oust, dislodge

(1) **expel** him from his native country, (2) **expel** air from the lungs

He took a big drag of his cigarette and slowly **expelled** the smoke.

circulate

v. to move continuously or freely around a place or closed system

synonym: flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

combination

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.

strand

a very thin natural or synthetic thread, wire, hair, etc.;
 (verb) to leave or drive a vessel, fish, etc., aground or ashore

synonym: fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA I heard several melodic **strands** simultaneously.

trap

 a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym: catch, snare, pinfall

(1) set a trap, (2) trap an animal

The enemy fell right into the trap.

discrete

adj. separate and distinct; not continuous; individually distinguishable

synonym: separate, distinct, individual

(1) discrete metric space, (2) discrete variable

The company divided the tasks into **discrete** segments to increase efficiency.

quantity

- *n*. the amount or number of something; magnitude *synonym*: abundance, portion, amount
- (1) half quantity, (2) residual quantity

In southward, the average annual water quantity increases.

particle

 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.

movement

 a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

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(1) a circular **movement**, (2) **movement** of troops The movement of the dancers on stage was graceful and elegant.

semiconductor

a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

synonym: chip, wafer

- (1) **semiconductor** industry, (2) **semiconductor** device The company develops and sells **semiconductor** memory for use in computers and servers.
- the state of constantly changing or flowing; the rate of n. flow of energy or particles across a particular place synonym: flow, change, motion

(1) flux density, (2) flux of particles

The town's population was in **flux**, with many people moving in and out.

the arrangement or pattern of something or a group of related things

synonym: arrangement, composition, formatting

- (1) **configuration** of the system, (2) engine **configuration** The **configuration** of molecules in steel changes significantly with temperature.
- to cover or enclose something entirely with paper, cloth, or other material

synonym: surround, cover, bandage

(1) wrap a fish in foil, (2) wrap up a meeting **Wrap** the bandage tightly around the injured arm.

magnet

an object or substance that can attract certain materials, such as iron or steel

synonym: magnetite, lodestone, attracting substance

(1) magnet attraction, (2) permanent magnet

flux

configuration

wrap

The MRI machine uses **magnets** to produce images of the body's internal organs.

midair

- n. some point in the air; above ground level
- (1) a **midair** collision, (2) thrown out into **midair** She flawlessly performed a **midair** somersault.

repulsion

- a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
 synonym: dislike, disgust, repugnance
- (1) repulsion force, (2) sense of repulsionThe sight of spiders fills me with repulsion.

rearrange

v. to change the order or position of things already made; to change the time, date, or place of an event already planned

synonym: readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule Please **rearrange** these files as we start a new project tomorrow.

slightly

adv. in a small degree or extent; a little synonym: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils He moved his body **slightly** to the left.

dimension

 a measurable extent of a particular kind, such as width, height, or length

synonym: extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**Overall **dimensions** are approximately 400x200mm.

upside

 the positive aspect or potential of something; the upper side of something

synonym: advantage, benefit, top

(1) have no upside, (2) market upside

Many people see the **upside** of traveling as an opportunity to experience new cultures and broaden their horizons.

circular

adj. shaped like a circle; having a round form synonym: round, loopy, oblique

(1) **circular** economy, (2) non- **circular** orbit The **circular** shape of the planet makes it difficult to determine which direction is north.

rotate

v. to turn around a central point or axis; to move in a circular path around something

synonym: turn, revolve, spin

(1) **rotate** crops, (2) **rotate** about the origin

The Earth **rotates** on its axis once every 24 hours.

axis

 a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

synonym: central, core, pole

(1) vertical axis, (2) a coordinate axis

The earth's **axis** of rotation is tilted 66.5 degrees to the ecliptic plane.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

maintain

 to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym: preserve, uphold, sustain

(1) maintain order, (2) maintain good health

I need to **maintain** my car regularly to prevent any major mechanical issues.

adjust

disk

to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

synonym: adapt, alter, acclimate

- (1) **adjust** a schedule, (2) **adjust** the rearview mirror You have to **adjust** your content to the age of the audience.
- n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

synonym: record, platter, plate

(1) disk drive, (2) disk space

The computer's hard **disk** was full, so she had to delete some files.

calculate

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

synonym: compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score He couldn't **calculate** the actual value of the artwork.

amazing

 adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling The golfer recorded an **amazing** distance.

micron

 a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym: micrometer

micron measurements, (2) micron imaging
 width of a single human hair is around 100 microns.

extend

v. to broaden in scope, range, or area

synonym: prolong, lengthen, advance

(1) **extend** the warranty, (2) **extend** a line Her visit will **extend** from Monday to Friday.

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rail

 a long, thin piece of metal or wood that is used to make fences or as a support for something; (verb) to complain bitterly

synonym: bar, beam, (verb) criticize

(1) rail system, (2) rail against his enemies

The children leaned over the bridge **rail** to watch the fish swimming below.

suspend

v. to stop something from continuing or being in force or effect, either temporarily or permanently; to hang something freely

synonym: stop, postpone, adjourn

(1) **suspend** a decision, (2) **suspend** fruits from the ceiling The University **suspended** the most recalcitrant demonstrators.

transfer

v. to move, pass, or change from one person, place, or situation to another

synonym: move, relocate, shift

(1) transfer a file, (2) transfer power

She **transferred** the money from her savings account to her checking account.

enormous

adj. extremely large or great

synonym: huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential Shakespeare's output of poetry was **enormous**.

accelerate

v. to make something faster or earlier; to cause to develop or progress more quickly

synonym: speed up, quicken, rev

- (1) **accelerate** a chemical reaction, (2) **accelerate** the car The government tried to **accelerate** the commercialization of this development.
- *n.* a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of

cable

twisted hemp or steel wire

synonym: wire, cord, rope

(1) cable television, (2) coaxial cable

This system uses submarine **cables** to exchange information between continents.

diameter

 the length of a straight line passing through the center of a circle and connecting two points on the circumference

synonym: diam, width

(1) **diameter** of an oval, (2) a particle **diameter** Draw a circle five centimeters in **diameter**.

Session 2: Spelling

the rem____le breadth of adj. worthy of attention because unusual or 1. knowledge special 2. ex I air from the lungs to officially force someone to leave a ν. school, organization, or country heat dis on the act of dispersing or dissolving, often 3. n. used to describe the dissipation of energy or the act of wasting or squandering resources tec cal advancement 4. adj. based on scientific and industrial progress plenty of in____or space 5. the inside or inner part of something; n. the space within the walls of a building a set of wires covered by plastic or 6. coaxial ca e n. rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire ex d a line 7. to broaden in scope, range, or area ν. ca e television 8. a set of wires covered by plastic or n. rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire half qu ty the amount or number of something; 9. n. magnitude 10. a com ed process

ANSWERS: 1. remarkable, 2. expel, 3. dissipation, 4. technological, 5. interior, 6. cable, 7. extend, 8. cable, 9. quantity, 10. complicated

analyze

adj. involving a lot of different things or parts

in a way that is difficult to understand or

11.	new dion	n.	a measurable extent of a particular kind such as width, height, or length
12.	remle achievement	adj.	worthy of attention because unusual or special
13.	a mir collision	n.	some point in the air; above ground level
14.	sense of reon	n.	a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
15.	a particle dier	n.	the length of a straight line passing through the center of a circle and connecting two points on the circumference
16.	semtor industry	n.	a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
17.	surface fron	n.	the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
18.	thrown out into mir	n.	some point in the air; above ground level
19.	laws of phs	n.	the science of matter and energy and their interactions
20.	enus potential	adj.	extremely large or great
21.	neutral hydrogen ams	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 11. dimension, 12. remarkable, 13. midair, 14. repulsion, 15. diameter, 16. semiconductor, 17. friction, 18. midair, 19. physics, 20. enormous, 21. atom

22.	dite variable	adj.	separate and distinct; not continuous; individually distinguishable
23.	f_x of particles	n.	the state of constantly changing or flowing; the rate of flow of energy or particles across a particular place
24.	high-temperature suptor	n.	a material that conducts electricity with zero resistance when cooled to very low temperatures or when subjected to high pressure or strong magnetic fields; a substance with the unique ability to transmit electric current with no energy loss
25.	wp a fish in foil	<i>v</i> .	to cover or enclose something entirely with paper, cloth, or other material
26.	rege his schedule	ν.	to change the order or position of things already made; to change the time, date, or place of an event already planned
27.	min measurements	n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
28.	the atmospheric temre	n.	the degree of hotness or coldness of a thing or place
29.	adt a schedule	<i>v</i> .	to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
30.	dite heat	<i>v</i> .	to disperse or scatter widely
31.	have no upe	n.	the positive aspect or potential of something; the upper side of something

ANSWERS: 22. discrete, 23. flux, 24. superconductor, 25. wrap, 26. rearrange, 27. micron, 28. temperature, 29. adjust, 30. dissipate, 31. upside

32.	exon of gas	n.	the act of forcing someone to leave a place or organization, especially permanently
33.	a std of fine hair	n.	a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
34.	elfy a manufacturing process	ν.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
35.	rl against his enemies	n.	a long, thin piece of metal or wood that is used to make fences or as a support for something; (verb) to complain bitterly
36.	natural pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
37.	set a tp	n.	a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
38.	pale energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
39.	dite stress	<i>v</i> .	to disperse or scatter widely
40.	become increasingly comed	adj.	involving a lot of different things or parts in a way that is difficult to understand or analyze
41.	a coordinate as	n.	a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

ANSWERS: 32. expulsion, 33. strand, 34. electrify, 35. rail, 36. phenomenon, 37. trap, 38. particle, 39. dissipate, 40. complicated, 41. axis

42.	conion of the system	n.	the arrangement or pattern of something or a group of related things
43.	demte a difference	<i>v</i> .	to display something or give an exhibition to an interested audience
44.	a maic tape	adj.	having the properties of attracting or repelling certain materials containing iron or steel
45.	rI system	n.	a long, thin piece of metal or wood that is used to make fences or as a support for something; (verb) to complain bitterly
46.	flow of elons	n.	a tiny particle with the negative electrical charge
47.	the great diry of the century	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
48.	resce movement	n.	the act of defending oneself from an aggressor or refusing to accept something
49.	fx density	n.	the state of constantly changing or flowing; the rate of flow of energy or particles across a particular place
50.	coe head-on	<i>v</i> .	to hit something violently when moving
51.	sud a decision	ν.	to stop something from continuing or being in force or effect, either temporarily or permanently; to hang something freely
52.	cate his credit score	<i>v</i> .	to judge or find out the amount or number of something by using mathematics

ANSWERS: 42. configuration, 43. demonstrate, 44. magnetic, 45. rail, 46. electron, 47. discovery, 48. resistance, 49. flux, 50. collide, 51. suspend, 52. calculate

53.	demte mastery	<i>v</i> .	to display something or give an exhibition to an interested audience
54.	amg advances	adj.	extremely surprising, especially in a way that you like or admire
55.	slly alkaline soils	adv.	in a small degree or extent; a little
56.	residual quty	n.	the amount or number of something; magnitude
57.	sud fruits from the ceiling	<i>v</i> .	to stop something from continuing or being in force or effect, either temporarily or permanently; to hang something freely
58.	suptor material	n.	a material that conducts electricity with zero resistance when cooled to very low temperatures or when subjected to high pressure or strong magnetic fields; a substance with the unique ability to transmit electric current with no energy loss
59.	roe crops	v.	to turn around a central point or axis; to move in a circular path around something
60.	exd the warranty	ν.	to broaden in scope, range, or area
61.	adt the rearview mirror	ν.	to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
62.	r_t with age	<i>v</i> .	to decay, or cause something to decay, naturally and gradually

ANSWERS: 53. demonstrate, 54. amazing, 55. slightly, 56. quantity, 57. suspend, 58. superconductor, 59. rotate, 60. extend, 61. adjust, 62. rot

63.	ciar economy	adj.	shaped like a circle; having a round form
64.	coe in midair	ν.	to hit something violently when moving
65.	severe crc	n.	someone who expresses opinions about the quality of books, music, etc.
66.	increase slly	adv.	in a small degree or extent; a little
67.	advnt of knowledge	n.	the development, improvement, or progress of something
68.	reon force	n.	a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
69.	comon number	n.	a collection of things that have been combined; an assemblage of separate parts or qualities
70.	the most amg feeling	adj.	extremely surprising, especially in a way that you like or admire
71.	resce to insulin	n.	the act of defending oneself from an aggressor or refusing to accept something
72.	inor decoration	n.	the inside or inner part of something; the space within the walls of a building
73.	trer power	<i>v</i> .	to move, pass, or change from one person, place, or situation to another
74.	main good health	<i>v</i> .	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
75.	non-ciar orbit	adj.	shaped like a circle; having a round form

ANSWERS: 63. circular, 64. collide, 65. critic, 66. slightly, 67. advancement, 68. repulsion, 69. combination, 70. amazing, 71. resistance, 72. interior, 73. transfer, 74. maintain, 75. circular

76.	art crc	n.	someone who expresses opinions about the quality of books, music, etc.
77.	begin to r_t	<i>v</i> .	to decay, or cause something to decay, naturally and gradually
78.	cite an agenda before the meeting	<i>v</i> .	to move continuously or freely around a place or closed system
79.	wp up a meeting	<i>v</i> .	to cover or enclose something entirely with paper, cloth, or other material
80.	nuclear phs	n.	the science of matter and energy and their interactions
81.	min imaging	n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
82.	lete for a few seconds	ν.	to rise or float in the air without apparent support, often in a magical or supernatural manner
83.	degree in eleal engineering	adj.	relating to electricity
84.	charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
85.	roe about the origin	ν.	to turn around a central point or axis; to move in a circular path around something
86.	main order	v.	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
87.	a circular mont	n.	a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

ANSWERS: 76. critic, 77. rot, 78. circulate, 79. wrap, 80. physics, 81. micron, 82. levitate, 83. electrical, 84. particle, 85. rotate, 86. maintain, 87. movement

88.	the crosswise dion	n.	a measurable extent of a particular kind such as width, height, or length
89.	laws of qum mechanics	n.	the smallest amount or unit of something, especially (electromagnetic) energy
90.	career advnt	n.	the development, improvement, or progress of something
91.	dite metric space	adj.	separate and distinct; not continuous; individually distinguishable
92.	enus amount	adj.	extremely large or great
93.	cite a rumor	<i>v</i> .	to move continuously or freely around a place or closed system
94.	beam of elons	n.	a tiny particle with the negative electrical charge
95.	elfy the audience	<i>v</i> .	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
96.	mont of troops	n.	a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
97.	genic comons	n.	a collection of things that have been combined; an assemblage of separate parts or qualities
98.	coon detection	n.	an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict

ANSWERS: 88. dimension, 89. quantum, 90. advancement, 91. discrete, 92. enormous, 93. circulate, 94. electron, 95. electrify, 96. movement, 97. combination, 98. collision

99. fron force	n.	the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
100. permanent mat	n.	an object or substance that can attract certain materials, such as iron or steel
101. come into coon with my friend	n.	an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
102. forceful exon	n.	the act of forcing someone to leave a place or organization, especially permanently
103. dk drive	n.	a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
104. rege the furniture	v.	to change the order or position of things already made; to change the time, date, or place of an event already planned
105. dee a word	ν.	to state or explain precisely the nature, scope, or meaning of something
106. accte the car	v.	to make something faster or earlier; to cause to develop or progress more quickly
107. a scientific diry	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
108. probabilistic qum theory	n.	the smallest amount or unit of something, especially (electromagnetic) energy

ANSWERS: 99. friction, 100. magnet, 101. collision, 102. expulsion, 103. disk, 104. rearrange, 105. define, 106. accelerate, 107. discovery, 108. quantum

109. lete objects	v.	to rise or float in the air without apparent support, often in a magical or supernatural manner
110. semtor device	n.	a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
111. energy dison	n.	the act of dispersing or dissolving, often used to describe the dissipation of energy or the act of wasting or squandering resources
112. trer a file	ν.	to move, pass, or change from one person, place, or situation to another
113. extreme temres	n.	the degree of hotness or coldness of a thing or place
114. an eleal storm	adj.	relating to electricity
115. engine conion	n.	the arrangement or pattern of something or a group of related things
116. dee my position	ν.	to state or explain precisely the nature, scope, or meaning of something
117. vertical as	n.	a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
118. market upe	n.	the positive aspect or potential of something; the upper side of something
119. accte a chemical reaction	<i>v</i> .	to make something faster or earlier; to cause to develop or progress more quickly

ANSWERS: 109. levitate, 110. semiconductor, 111. dissipation, 112. transfer, 113. temperature, 114. electrical, 115. configuration, 116. define, 117. axis, 118. upside, 119. accelerate

120. mat attraction	n.	an object or substance that can attract certain materials, such as iron or steel
121. exI him from his native country	v.	to officially force someone to leave a school, organization, or country
122. historical pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
123. double-std DNA	n.	a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
124. dk space	n.	a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
125. teccal policy	adj.	based on scientific and industrial progress
126. maic field	adj.	having the properties of attracting or repelling certain materials containing iron or steel
127. oxygen am	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
128. cate the distance	ν.	to judge or find out the amount or number of something by using mathematics
129. dier of an oval	n.	the length of a straight line passing through the center of a circle and connecting two points on the circumference

ANSWERS: 120. magnet, 121. expel, 122. phenomenon, 123. strand, 124. disk, 125. technological, 126. magnetic, 127. atom, 128. calculate, 129. diameter

130. t_p an animal

 a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

ANSWERS: 130. trap

Session 3: Fill in the Blanks

1.	Please refrigerate the meat, or it will
<i>v</i> .	to decay, or cause something to decay, naturally and gradually
2.	The of the dancers on stage was graceful and elegant.
n.	a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
3.	The fan the air in the room quickly.
<i>v</i> .	to move continuously or freely around a place or closed system
4.	Her research team made an important
n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
5.	He did pen-and-ink drawings in just a few days.
ad	involving a lot of different things or parts in a way that is difficult to understand or analyze
6.	Many people see the of traveling as an opportunity to experience new cultures and broaden their horizons.
n.	the positive aspect or potential of something; the upper side of something
7.	the bandage tightly around the injured arm.
v.	to cover or enclose something entirely with paper, cloth, or other material
8.	Overall are approximately 400x200mm.
n.	a measurable extent of a particular kind, such as width, height, or length
	ISWERS: 1. rot, 2. movement, 3. circulates, 4. discovery, 5. complicated, 6. upside,

9.	The product developed through years of research continues to the market.
<i>v</i> .	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
10.	The company develops and sells memory for use in computers and servers.
n.	a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
11.	The magician appeared to off the stage, stunning the audience.
v.	to rise or float in the air without apparent support, often in a magical or supernatural manner
12.	The town's population was in with many people moving in and out.
n.	the state of constantly changing or flowing; the rate of flow of energy or particles across a particular place
13.	The MRI machine uses to produce images of the body's internal organs.
n.	an object or substance that can attract certain materials, such as iron or steel
14.	The interests of the two countries
v.	to hit something violently when moving
15.	He moved his body to the left.
adv	in a small degree or extent; a little
16.	advances have disrupted many industries.
adj	based on scientific and industrial progress
	SWERS: 9. electrify, 10. semiconductor, 11. levitate, 12. flux, 13. magnets, 14. ide, 15. slightly, 16. Technological

17.	You have to your content to the age of the audience.
<i>v</i> .	to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
18.	The width of a single human hair is around 100
n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
19.	The to the safe was a secret.
n.	a collection of things that have been combined; an assemblage of separate parts or qualities
20.	The force of the earth keeps our planet spinning.
adj	having the properties of attracting or repelling certain materials containing iron or steel
21.	He couldn't the actual value of the artwork.
v.	to judge or find out the amount or number of something by using mathematics
22.	Cities around the world set records for highest this summer.
n.	the degree of hotness or coldness of a thing or place
23.	Draw a circle five centimeters in
n.	the length of a straight line passing through the center of a circle and connecting two points on the circumference
24.	She the money from her savings account to her checking account.
<i>v</i> .	to move, pass, or change from one person, place, or situation to another
	SWERS: 17. adjust, 18. microns, 19. combination, 20. magnetic, 21. calculate, 22. aperatures, 23. diameter, 24. transferred

25.	The between the two countries was causing tension.
n.	the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
26.	I need to my car regularly to prevent any major mechanical issues.
<i>v</i> .	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
27.	In southward, the average annual water increases.
n.	the amount or number of something; magnitude
28.	The ambassador's was a sign of the deteriorating relations between the two countries.
n.	the act of forcing someone to leave a place or organization, especially permanently
29.	Her visit will from Monday to Friday.
ν.	to broaden in scope, range, or area
30.	His reckless spending and partying led to his family's fortune
n.	the act of dispersing or dissolving, often used to describe the dissipation of energy or the act of wasting or squandering resources
31.	The company divided the tasks into segments to increase efficiency.
adj	separate and distinct; not continuous; individually distinguishable
32.	The outermost electron shell of an determines its chemical characteristics
n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
	SWERS: 25. friction, 26. maintain, 27. quantity, 28. expulsion, 29. extend, 30. sipation, 31. discrete, 32. atom

33.	The enemy fell right into the
n.	a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
34.	The painter focused on the moody of abandoned buildings in his work.
n.	the inside or inner part of something; the space within the walls of a building
	Actuators convert pulses into motion. relating to electricity
36.	The of molecules in steel changes significantly with temperature.
n.	the arrangement or pattern of something or a group of related things
37. v.	To advance this discussion, we must "success" rigorously. to state or explain precisely the nature, scope, or meaning of something
38.	I heard several melodic simultaneously.
n.	a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
39.	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
40.	The government tried to the commercialization of this development.
v.	to make something faster or earlier; to cause to develop or progress more quickly
	SWERS: 33. trap, 34. interiors, 35. electrical, 36. configuration, 37. define, 38. ands, 39. particles, 40. accelerate

41.	The University the most recalcitrant demonstrators.
v.	to stop something from continuing or being in force or effect, either temporarily or permanently; to hang something freely
42.	The fog and the air cleared up.
<i>v</i> .	to disperse or scatter widely
43.	The election was a success for the Whigs.
adj.	worthy of attention because unusual or special
44.	The sight of spiders fills me with
n.	a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
45.	The outermost shell determines the chemical properties of an atom.
n.	a tiny particle with the negative electrical charge
46.	The golfer recorded an distance.
adj.	extremely surprising, especially in a way that you like or admire
47.	He studied the of radiation.
n.	the science of matter and energy and their interactions
48.	Shakespeare's output of poetry was
adj.	extremely large or great
49.	The Earth on its axis once every 24 hours.
<i>v</i> .	to turn around a central point or axis; to move in a circular path around something
	SWERS: 41. suspended, 42. dissipated, 43. remarkable, 44. repulsion, 45. stron, 46. amazing, 47. physics, 48. enormous, 49. rotates

50.	The bill to increase the consumption tax had passed despite much from the public.
n.	the act of defending oneself from an aggressor or refusing to accept something
51. n.	The earth's of rotation is tilted 66.5 degrees to the ecliptic plane. a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
52. n.	She flawlessly performed a somersault. some point in the air; above ground level
53. n.	Big techs are now eager to develop computers. the smallest amount or unit of something, especially (electromagnetic) energy
54.	The shape of the planet makes it difficult to determine which direction is north.
adj	shaped like a circle; having a round form
55. <i>v</i> .	He took a big drag of his cigarette and slowly the smoke. to officially force someone to leave a school, organization, or country
56. n.	The children leaned over the bridge to watch the fish swimming below. a long, thin piece of metal or wood that is used to make fences or as a support for something; (verb) to complain bitterly
57. n.	Competition between countries resulted in fast technological the development, improvement, or progress of something
58.	The of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.
n.	an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
	SWERS: 50. resistance, 51. axis, 52. midair, 53. quantum, 54. circular, 55. pelled, 56. rail, 57. advancement, 58. collision

ANSWERS: 59. demonstrate, 60. rearrange, 61. critics, 62. disk, 63. cables, 64.

understood

superconductors, 65. phenomenon

something that exists and can be perceptible, especially one that is not fully