

# Englist.me



## Vocabulary Builder Reference from...

Arleen Sugano: The physics of the "hardest move" in ballet | TED Talk

[https://www.ted.com/talks/arleen\\_sugano\\_the\\_physics\\_of\\_the\\_hardest\\_move\\_in\\_ballet](https://www.ted.com/talks/arleen_sugano_the_physics_of_the_hardest_move_in_ballet)

### All Words

#### IMPORTANT

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## Session 1: Word List

### swan

*n.* a large waterbird with a long neck, bill, and webbed feet; known for their elegant and graceful appearance

*synonym* : cygnet, waterfowl, bird

(1) **swan** song, (2) black **swan**

The **swan's** feathers glistened in the sunlight.

### endless

*adj.* having no end or conclusion; infinitely very large in size or amount

*synonym* : infinite, ceaseless, boundless

(1) **endless** possibilities, (2) **endless** hours

He looked out the window at the **endless** stream of people.

### bob

*v.* to move up and down quickly and repeatedly, often in a short, jerky motion; to cut, trim, or shorten hair, especially by repeatedly snipping with scissors; (noun) a hairstyle in which the hair is cut short and even all around, usually above the shoulders

*synonym* : bobble, bounce, wag

(1) **bob** a quick curtsy, (2) **bob** on the surface of the water

I need to **bob** my head to the beat of the music.

### spinning

*n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form

thread or yarn

*synonym*: whirling, rotating, spinning wheel

(1) **spinning** machine, (2) **spinning** wheel

She took a **spinning** class at the gym to improve her cardiovascular fitness.

## sequence

*n.* a series of related events, actions, numbers, etc., which have a particular order

*synonym*: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

## ballet

*n.* a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing

(1) a **ballet** enthusiast, (2) **ballet** lessons

She is a leading female classical **ballet** dancer

## perpetual

*adj.* continuing for an extended period in the same way without stopping or being interrupted

*synonym*: enduring, unchanging, incessant

(1) **perpetual** motion machine, (2) **perpetual** struggle

The company employs a **perpetual** inventory system.

## spectacular

*adj.* striking or impressive to look at or in performance or achievement

*synonym*: breathtaking, impressive, grand

(1) **spectacular** view, (2) achieve **spectacular** growth

The **spectacular** fireworks display was the highlight of the festival.

## whip

*v.* to hit a person or an animal severely with a thin, flexible stick with a cord or leather thong at the end, as a punishment, discipline, etc.

*synonym*: thrash, flog, scourge

(1) **whip** egg whites, (2) **whip** into shape

The jockey **whipped** the horse hard to take first place.

## incredible

*adj.* unbelievable; enormous

*synonym* : unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

## marvel

*n.* someone something that causes feelings of wonder or surprise

*synonym* : wonder, phenomenon, amazement

(1) a **marvel** of beauty, (2) technical **marvel**

The space shuttle is a modern engineering **marvel**.

## unravel

*v.* undo twisted, knitted, or woven threads by separating it

*synonym* : separate, unknot, ravel

(1) **unravel** a knit, (2) **unravel** a plot

Detectives are still attempting to **unravel** the mystery of his death.

## physics

*n.* the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

## torque

*n.* a twisting or rotational force that tends to cause rotation around an axis; a measure of the force that can cause an object to rotate;

*synonym* : twist, rotation, spin

(1) high **torque**, (2) **torque** settings

The mechanic used a **torque** wrench to tighten the bolts on the car engine.

## maintain

*v.* 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.

## rotation

*n.* the action or process of moving in a circle around an axis or center

*synonym* : revolution, spin, turning

(1) job **rotation**, (2) a period of **rotation**

The **rotation** of the Earth causes day and night.

## 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.

## pause

*v.* to take a short break from talking or doing something before continuing

*synonym* : halt, break, intermit

(1) **pause** a moment, (2) **pause** for a reaction

The man **paused** before opening the door.

## split

*v.* to divide, or to make something divide into two or more parts, especially along a particular line

*synonym* : break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

## twist

*v.* to bend or turn something into a certain shape

*synonym* : wrench, turn, twirl

(1) **twist** around to the left, (2) **twist** a wet towel

He **twisted** pieces of rope out of straw.

## sweep

*v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly

*synonym* : clean, clear, brush off

(1) **sweep** up dead leaves, (2) **sweep** a room with a glance  
The politician tried to **sweep** the embarrassing incident under the rug.

## balance

*n.* a condition in which everything has the same weight or force; something left after other parts have been taken away

*synonym*: equilibrium, counterpoise, remainder

(1) the **balance** of power, (2) asset on the company's **balance** sheet

Try to keep a **balance** between work and off.

## gravity

*n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

*synonym*: heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

## constant

*adj.* happening repeatedly or all the time

*synonym*: ceaseless, stable, unchanging

(1) a **constant** wind, (2) a **constant** temperature

**Constant** dropping wears away the stone.

## axis

*n.* 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.

## vertical

*adj.* upright or perpendicular to a horizontal surface or line

*synonym*: perpendicular, upright, plumb

(1) **vertical** takeoff, (2) **vertical** axis

The ladder leaned against the **vertical** surface of the building.

### extended

*adj.* longer than usual or anticipated

*synonym*: extensive, prolonged, elongated

(1) **extended** vacation, (2) **extended** payment

The **extended** airport runways may accommodate larger jets.

### elevate

*v.* to raise something from a lower to a higher position; to give a promotion to or assign to a higher position

*synonym*: lift, heighten, promote

(1) **elevate** educational standards, (2) **elevate** a close relationship

Eating food in a hurry **elevates** blood glucose levels.

### straighten

*v.* to make something straight or orderly; to adjust or fix something crooked, bent, or misaligned

*synonym*: even up, align, untangle

(1) **straighten** out a problem, (2) **straighten** a crooked picture

I need to **straighten** my hair before I go to the party.

### 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.

### propel

*v.* to move, drive or push something forward or in a particular direction, often with a lot of force

*synonym*: drive, push, move

(1) **propel** growth, (2) **propel** the ship

An increase in employment helps **propel** economic growth.

## ballerina

*n.* a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer

*synonym* : dancer, danseuse

(1) classical **ballerina**, (2) famous **ballerina**

The **ballerina's** graceful movements were a joy to watch.

## 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.

## retract

*v.* to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made

*synonym* : withdraw, take back, revoke

(1) **retract** a promise, (2) **retract** a lawsuit

I need to **retract** my statement because I realized it was incorrect.

## extension

*n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line

*synonym* : addition, augment, supplement

(1) time **extension**, (2) telephone **extension**

They are building an **extension** to the house to add more bedrooms.

## angular

*adj.* measured by an angle or by the rate of change of an angle; having angles or an angular shape

*synonym* : jagged, angulate

(1) **angular** mountain ridge, (2) **angular** momentum

Any rotating body has **angular** momentum about its center of mass.

## replenish

v. to fill something that had previously been emptied  
*synonym*: refill, reload, restock

(1) **replenish** a reserve fund, (2) **replenish** my spirit  
Please **replenish** my glass with some more wine.

## govern

v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services  
*synonym*: control, rule, preside

(1) a nation's right to **govern**, (2) **govern** a public enterprise  
The regulations **governing** medical malpractice claims are rigorous.

## velocity

n. the rate of change of an object's position with respect to time, often measured in meters per second (m/s)  
*synonym*: speed, rapidity, swiftness

(1) initial **velocity**, (2) high **velocity**  
The **velocity** of the car was too fast for the road conditions.

## 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**.

## inertia

n. the quality or state of being inactive, sluggish, or slow to move or act  
*synonym*: sluggishness, lethargy, idleness

(1) **inertia** resistance, (2) Newton's law of **inertia**  
The object's **inertia** kept it moving in a straight line until acted upon by an outside force.

## conservation

n. the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity  
*synonym*: preservation, protection, saving

(1) soil **conservation**, (2) the **conservation** law of physics



The forest was recently designated a **conservation** area.

## 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.

## mass

*n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

*synonym*: abundance, crowd, mob

(1) a **mass** of molten rock, (2) critical **mass**

The **mass** of people who do not own property is politically impotent.

## distribute

*v.* to give something to a large number of individuals, or to spread or furnish something

*synonym*: broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content

His estate was **distributed** to his sons.

## shrink

*v.* to become smaller, or to make something smaller in size or amount

*synonym*: decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

## conserve

*v.* to protect something, especially the natural environment or culture, from change, damage, or destruction

*synonym*: preserve, save, maintain

(1) means to **conserve** energy, (2) **conserve** coal resources

Children must be taught to **conserve** our natural environment.

## skate

*n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces

*synonym*: blade, runner, sled

(1) **skate** park, (2) roller **skate**

She has been practicing an ice **skate** routine for months

## sorcery

*n.* the use of magic, often associated with evil or supernatural powers; witchcraft

*synonym*: magic, witchcraft, enchantment

(1) mystical **sorcery**, (2) dark **sorcery**

He claimed that he could perform **sorcery** and cast spells.

## captivate

*v.* to attract and hold the attention or interest of

*synonym*: enchant, charm, fascinate

(1) **captivate** public sentiment, (2) **captivate** the mind

The magician **captivated** the audience with his illusions.

## supernatural

*adj.* of or relating to existence outside the natural world; not able to be explained by natural laws

*synonym*: paranormal, otherworldly, preternatural

(1) **supernatural** beings, (2) **supernatural** intuition

The **supernatural** powers of the witch were the stuff of legends.

## magic

*n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

*synonym*: fascination, illusion, wizardry

(1) a **magic** spell, (2) she is **magic**

He performed **magic** tricks with sophisticated moves.

## Session 2: Spelling

1. begin to r\_t *v.* to decay, or cause something to decay, naturally and gradually
2. sup\_\_\_\_\_ral beings *adj.* of or relating to existence outside the natural world; not able to be explained by natural laws
3. ex\_\_\_d the warranty *v.* to broaden in scope, range, or area
4. ex\_\_\_\_\_ed payment *adj.* longer than usual or anticipated
5. str\_\_\_\_\_en a crooked picture *v.* to make something straight or orderly; to adjust or fix something crooked, bent, or misaligned
6. means to co\_\_\_\_\_ve energy *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
7. Newton's law of in\_\_\_\_\_a *n.* the quality or state of being inactive, sluggish, or slow to move or act
8. b\_b a quick curtsy *v.* to move up and down quickly and repeatedly, often in a short, jerky motion; to cut, trim, or shorten hair, especially by repeatedly snipping with scissors; (noun) a hairstyle in which the hair is cut short and even all around, usually above the shoulders
9. ma\_\_\_\_\_in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
10. sk\_\_e park *n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces

ANSWERS: 1. rot, 2. supernatural, 3. extend, 4. extended, 5. straighten, 6. conserve, 7. inertia, 8. bob, 9. maintain, 10. skate

11. an\_\_\_\_r mountain ridge *adj.* measured by an angle or by the rate of change of an angle; having angles or an angular shape
12. an\_\_\_\_r momentum *adj.* measured by an angle or by the rate of change of an angle; having angles or an angular shape
13. dis\_\_\_\_\_te wealth evenly *v.* to give something to a large number of individuals, or to spread or furnish something
14. sp\_\_t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
15. roller sk\_\_e *n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces
16. job ro\_\_\_\_\_on *n.* the action or process of moving in a circle around an axis or center
17. tr\_\_\_\_\_er a file *v.* to move, pass, or change from one person, place, or situation to another
18. a ma\_\_\_l of beauty *n.* someone something that causes feelings of wonder or surprise
19. sh\_\_\_k the tumor *v.* to become smaller, or to make something smaller in size or amount
20. high to\_\_\_e *n.* a twisting or rotational force that tends to cause rotation around an axis; a measure of the force that can cause an object to rotate;

ANSWERS: 11. angular, 12. angular, 13. distribute, 14. split, 15. skate, 16. rotation, 17. transfer, 18. marvel, 19. shrink, 20. torque

21. critical m\_\_s *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
22. el\_\_\_\_\_e a close relationship *v.* to raise something from a lower to a higher position; to give a promotion to or assign to a higher position
23. fr\_\_\_\_\_on 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
24. a ba\_\_\_\_t enthusiast *n.* a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing
25. inc\_\_\_\_\_le amount *adj.* unbelievable; enormous
26. sp\_\_t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
27. the se\_\_\_\_\_ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
28. ca\_\_\_\_\_te the mind *v.* to attract and hold the attention or interest of
29. pe\_\_\_\_\_al motion machine *adj.* continuing for an extended period in the same way without stopping or being interrupted
30. at inc\_\_\_\_\_le speed *adj.* unbelievable; enormous

ANSWERS: 21. mass, 22. elevate, 23. friction, 24. ballet, 25. incredible, 26. split, 27. sequence, 28. captivate, 29. perpetual, 30. incredible

31. pe\_\_\_\_\_al struggle *adj.* continuing for an extended period in the same way without stopping or being interrupted
32. surface fr\_\_\_\_\_on *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
33. pr\_\_\_\_l the ship *v.* to move, drive or push something forward or in a particular direction, often with a lot of force
34. ba\_\_\_\_t lessons *n.* a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing
35. dis\_\_\_\_\_te video content *v.* to give something to a large number of individuals, or to spread or furnish something
36. ex\_\_\_\_\_ed vacation *adj.* longer than usual or anticipated
37. tr\_\_\_\_\_er power *v.* to move, pass, or change from one person, place, or situation to another
38. in\_\_\_\_\_a resistance *n.* the quality or state of being inactive, sluggish, or slow to move or act
39. telephone ex\_\_\_\_\_on *n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line

ANSWERS: 31. perpetual, 32. friction, 33. propel, 34. ballet, 35. distribute, 36. extended, 37. transfer, 38. inertia, 39. extension

40. black s\_\_n *n.* a large waterbird with a long neck, bill, and webbed feet; known for their elegant and graceful appearance
41. preserve my gr\_\_\_\_y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
42. res\_\_\_\_ce movement *n.* the act of defending oneself from an aggressor or refusing to accept something
43. soil con\_\_\_\_\_ion *n.* the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity
44. re\_\_\_\_\_t a lawsuit *v.* to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made
45. the DNA se\_\_\_\_\_ce *n.* a series of related events, actions, numbers, etc., which have a particular order
46. asset on the company's ba\_\_\_\_\_e sheet *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
47. to\_\_\_e settings *n.* a twisting or rotational force that tends to cause rotation around an axis; a measure of the force that can cause an object to rotate;
48. w\_\_p into shape *v.* to hit a person or an animal severely with a thin, flexible stick with a cord or leather thong at the end, as a punishment, discipline, etc.

ANSWERS: 40. swan, 41. gravity, 42. resistance, 43. conservation, 44. retract, 45. sequence, 46. balance, 47. torque, 48. whip

49. go\_\_\_n a public enterprise      *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
50. r\_t with age      *v.* to decay, or cause something to decay, naturally and gradually
51. classical ba\_\_\_\_\_na      *n.* a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer
52. laws of ph\_\_\_\_\_s      *n.* the science of matter and energy and their interactions
53. a nation's right to go\_\_\_n      *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
54. the ba\_\_\_\_\_e of power      *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
55. mystical so\_\_\_\_\_y      *n.* the use of magic, often associated with evil or supernatural powers; witchcraft
56. sp\_\_\_\_\_ng wheel      *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
57. w\_\_p egg whites      *v.* to hit a person or an animal severely with a thin, flexible stick with a cord or leather thong at the end, as a punishment, discipline, etc.

ANSWERS: 49. govern, 50. rot, 51. ballerina, 52. physics, 53. govern, 54. balance, 55. sorcery, 56. spinning, 57. whip



58. el\_\_\_\_e educational standards      *v.* to raise something from a lower to a higher position; to give a promotion to or assign to a higher position
59. un\_\_\_\_l a plot      *v.* undo twisted, knitted, or woven threads by separating it
60. a co\_\_\_\_nt temperature      *adj.* happening repeatedly or all the time
61. a co\_\_\_\_nt wind      *adj.* happening repeatedly or all the time
62. high ve\_\_\_\_ty      *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
63. s\_\_n song      *n.* a large waterbird with a long neck, bill, and webbed feet; known for their elegant and graceful appearance
64. vertical a\_\_s      *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
65. nuclear ph\_\_\_\_s      *n.* the science of matter and energy and their interactions
66. technical ma\_\_\_\_l      *n.* someone something that causes feelings of wonder or surprise
67. ma\_\_\_\_in order      *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
68. pa\_\_e a moment      *v.* to take a short break from talking or doing something before continuing
69. res\_\_\_\_ce to insulin      *n.* the act of defending oneself from an aggressor or refusing to accept something

ANSWERS: 58. elevate, 59. unravel, 60. constant, 61. constant, 62. velocity, 63. swan, 64. axis, 65. physics, 66. marvel, 67. maintain, 68. pause, 69. resistance

70. a m\_\_s of molten rock *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
71. re\_\_\_\_\_sh my spirit *v.* to fill something that had previously been emptied
72. b\_b on the surface of the water *v.* to move up and down quickly and repeatedly, often in a short, jerky motion; to cut, trim, or shorten hair, especially by repeatedly snipping with scissors; (noun) a hairstyle in which the hair is cut short and even all around, usually above the shoulders
73. a coordinate a\_\_s *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
74. co\_\_\_\_\_ve coal resources *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
75. time ex\_\_\_\_\_on *n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line
76. she is ma\_\_c *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

ANSWERS: 70. mass, 71. replenish, 72. bob, 73. axis, 74. conserve, 75. extension, 76. magic

77. dark so\_\_\_\_y *n.* the use of magic, often associated with evil or supernatural powers; witchcraft
78. ve\_\_\_\_al axis *adj.* upright or perpendicular to a horizontal surface or line
79. tw\_\_t a wet towel *v.* to bend or turn something into a certain shape
80. sw\_\_p up dead leaves *v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly
81. achieve spe\_\_\_\_ar growth *adj.* striking or impressive to look at or in performance or achievement
82. a period of ro\_\_\_\_on *n.* the action or process of moving in a circle around an axis or center
83. tw\_\_t around to the left *v.* to bend or turn something into a certain shape
84. ex\_\_\_\_d a line *v.* to broaden in scope, range, or area
85. sup\_\_\_\_ral intuition *adj.* of or relating to existence outside the natural world; not able to be explained by natural laws
86. sh\_\_\_\_k with fear *v.* to become smaller, or to make something smaller in size or amount
87. str\_\_\_\_en out a problem *v.* to make something straight or orderly; to adjust or fix something crooked, bent, or misaligned
88. the attraction of gr\_\_\_\_y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

ANSWERS: 77. sorcery, 78. vertical, 79. twist, 80. sweep, 81. spectacular, 82. rotation, 83. twist, 84. extend, 85. supernatural, 86. shrink, 87. straighten, 88. gravity

89. re\_\_\_\_\_sh a reserve fund      *v.* to fill something that had previously been emptied
90. un\_\_\_\_\_l a knit      *v.* undo twisted, knitted, or woven threads by separating it
91. en\_\_\_\_\_s hours      *adj.* having no end or conclusion; infinitely very large in size or amount
92. en\_\_\_\_\_s possibilities      *adj.* having no end or conclusion; infinitely very large in size or amount
93. sw\_\_p a room with a glance      *v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly
94. pa\_\_e for a reaction      *v.* to take a short break from talking or doing something before continuing
95. initial ve\_\_\_\_\_ty      *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
96. re\_\_\_\_\_t a promise      *v.* to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made
97. famous ba\_\_\_\_\_na      *n.* a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer
98. ca\_\_\_\_\_te public sentiment      *v.* to attract and hold the attention or interest of
99. a ma\_\_c spell      *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

ANSWERS: 89. replenish, 90. unravel, 91. endless, 92. endless, 93. sweep, 94. pause, 95. velocity, 96. retract, 97. ballerina, 98. captivate, 99. magic

100. the con\_\_\_\_\_ion law of physics      *n.* the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity
101. spe\_\_\_\_\_ar view      *adj.* striking or impressive to look at or in performance or achievement
102. sp\_\_\_\_\_ng machine      *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
103. pr\_\_\_\_l growth      *v.* to move, drive or push something forward or in a particular direction, often with a lot of force
104. ve\_\_\_\_\_al takeoff      *adj.* upright or perpendicular to a horizontal surface or line

ANSWERS: 100. conservation, 101. spectacular, 102. spinning, 103. propel, 104. vertical

## Session 3: Fill in the Blanks

1. He studied the \_\_\_\_\_ of radiation.  
*n.* the science of matter and energy and their interactions
2. The object's \_\_\_\_\_ kept it moving in a straight line until acted upon by an outside force.  
*n.* the quality or state of being inactive, sluggish, or slow to move or act
3. The astronaut felt weightless in space due to the absence of \_\_\_\_\_.  
*n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
4. Eating food in a hurry \_\_\_\_\_ blood glucose levels.  
*v.* to raise something from a lower to a higher position; to give a promotion to or assign to a higher position
5. The \_\_\_\_\_ of the Earth causes day and night.  
*n.* the action or process of moving in a circle around an axis or center
6. Her response revealed \_\_\_\_\_ idiocy.  
*adj.* unbelievable; enormous
7. I need to \_\_\_\_ my head to the beat of the music.  
*v.* to move up and down quickly and repeatedly, often in a short, jerky motion; to cut, trim, or shorten hair, especially by repeatedly snipping with scissors; (noun) a hairstyle in which the hair is cut short and even all around, usually above the shoulders

ANSWERS: 1. physics, 2. inertia, 3. gravity, 4. elevates, 5. rotation, 6. incredible, 7. bob

8. Please \_\_\_\_\_ my glass with some more wine.  
*v.* to fill something that had previously been emptied
9. This shirt will \_\_\_\_\_ in the wash.  
*v.* to become smaller, or to make something smaller in size or amount
10. The \_\_\_\_\_ of the car was too fast for the road conditions.  
*n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
11. The earth's \_\_\_\_\_ of rotation is tilted 66.5 degrees to the ecliptic plane.  
*n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
12. \_\_\_\_\_ dropping wears away the stone.  
*adj.* happening repeatedly or all the time
13. An increase in employment helps \_\_\_\_\_ economic growth.  
*v.* to move, drive or push something forward or in a particular direction, often with a lot of force
14. Try to keep a \_\_\_\_\_ between work and off.  
*n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
15. The politician tried to \_\_\_\_\_ the embarrassing incident under the rug.  
*v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly

ANSWERS: 8. replenish, 9. shrink, 10. velocity, 11. axis, 12. Constant, 13. propel, 14. balance, 15. sweep

16. The \_\_\_\_\_ of people who do not own property is politically impotent.  
*n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
17. She \_\_\_\_\_ the money from her savings account to her checking account.  
*v.* to move, pass, or change from one person, place, or situation to another
18. He looked out the window at the \_\_\_\_\_ stream of people.  
*adj.* having no end or conclusion; infinitely very large in size or amount
19. The \_\_\_\_\_ feathers glistened in the sunlight.  
*n.* a large waterbird with a long neck, bill, and webbed feet; known for their elegant and graceful appearance
20. I need to \_\_\_\_\_ my hair before I go to the party.  
*v.* to make something straight or orderly; to adjust or fix something crooked, bent, or misaligned
21. The \_\_\_\_\_ airport runways may accommodate larger jets.  
*adj.* longer than usual or anticipated
22. We do move forward with those tasks in \_\_\_\_\_ next week.  
*n.* a series of related events, actions, numbers, etc., which have a particular order
23. The \_\_\_\_\_ fireworks display was the highlight of the festival.  
*adj.* striking or impressive to look at or in performance or achievement
24. She is a leading female classical \_\_\_\_\_ dancer  
*n.* a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing

ANSWERS: 16. mass, 17. transferred, 18. endless, 19. swan's, 20. straighten, 21. extended, 22. sequence, 23. spectacular, 24. ballet



25. She has been practicing an ice \_\_\_\_\_ routine for months
- n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces
26. Companies often \_\_\_\_\_ their shares to lower the stock price and encourage investors to buy.
- v.* to divide, or to make something divide into two or more parts, especially along a particular line
27. She took a \_\_\_\_\_ class at the gym to improve her cardiovascular fitness.
- n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
28. The magician \_\_\_\_\_ the audience with his illusions.
- v.* to attract and hold the attention or interest of
29. Children must be taught to \_\_\_\_\_ our natural environment.
- v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
30. Any rotating body has \_\_\_\_\_ momentum about its center of mass.
- adj.* measured by an angle or by the rate of change of an angle; having angles or an angular shape
31. The ladder leaned against the \_\_\_\_\_ surface of the building.
- adj.* upright or perpendicular to a horizontal surface or line
32. I need to \_\_\_\_\_ my statement because I realized it was incorrect.
- v.* to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made

ANSWERS: 25. skate, 26. split, 27. spinning, 28. captivated, 29. conserve, 30. angular, 31. vertical, 32. retract

33. They are building an \_\_\_\_\_ to the house to add more bedrooms.  
*n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line
34. Please refrigerate the meat, or it will \_\_\_\_\_.  
*v.* to decay, or cause something to decay, naturally and gradually
35. He \_\_\_\_\_ pieces of rope out of straw.  
*v.* to bend or turn something into a certain shape
36. The company employs a \_\_\_\_\_ inventory system.  
*adj.* continuing for an extended period in the same way without stopping or being interrupted
37. Detectives are still attempting to \_\_\_\_\_ the mystery of his death.  
*v.* undo twisted, knitted, or woven threads by separating it
38. The space shuttle is a modern engineering \_\_\_\_\_.  
*n.* someone something that causes feelings of wonder or surprise
39. His estate was \_\_\_\_\_ to his sons.  
*v.* to give something to a large number of individuals, or to spread or furnish something
40. 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

ANSWERS: 33. extension, 34. rot, 35. twisted, 36. perpetual, 37. unravel, 38. marvel, 39. distributed, 40. friction

41. 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
42. The mechanic used a \_\_\_\_\_ wrench to tighten the bolts on the car engine.
- n.* a twisting or rotational force that tends to cause rotation around an axis; a measure of the force that can cause an object to rotate;
43. The forest was recently designated a \_\_\_\_\_ area.
- n.* the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity
44. I need to \_\_\_\_\_ my car regularly to prevent any major mechanical issues.
- v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
45. The man \_\_\_\_\_ before opening the door.
- v.* to take a short break from talking or doing something before continuing
46. The regulations \_\_\_\_\_ medical malpractice claims are rigorous.
- v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
47. Her visit will \_\_\_\_\_ from Monday to Friday.
- v.* to broaden in scope, range, or area
48. He claimed that he could perform \_\_\_\_\_ and cast spells.
- n.* the use of magic, often associated with evil or supernatural powers; witchcraft

ANSWERS: 41. resistance, 42. torque, 43. conservation, 44. maintain, 45. paused, 46. governing, 47. extend, 48. sorcery

49. The \_\_\_\_\_ powers of the witch were the stuff of legends.

*adj.* of or relating to existence outside the natural world; not able to be explained by natural laws

50. He performed \_\_\_\_\_ tricks with sophisticated moves.

*n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

51. The \_\_\_\_\_ graceful movements were a joy to watch.

*n.* a female ballet (= a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing) dancer

52. The jockey \_\_\_\_\_ the horse hard to take first place.

*v.* to hit a person or an animal severely with a thin, flexible stick with a cord or leather thong at the end, as a punishment, discipline, etc.

ANSWERS: 49. supernatural, 50. magic, 51. ballerina's, 52. whipped