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Vocabulary Builder Reference from...

Daniel Dulek: How big is a mole? (Not the animal, the other one.) | TED Talk

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

All Words

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Session 1: Word List

mole

n. small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin

(1) **mole** catcher, (2) **mole** planted by the FBI

The **mole** burrowed in the ground.

furry

adj. covered in fur or a furry material; resembling fur

synonym: hairy, fuzzy, feathered

(1) the **furry** skin, (2) have **furry** leaves

The stuffed animal was so **furry** and soft that it was hard to resist hugging it.

creature

n. a living being, especially an animal

synonym: being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

destroy

v. to ruin or damage severely or completely; to eradicate or eliminate completely

synonym: demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym : pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

concept

n. an idea or principle associated with something abstract

synonym : idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

atom

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

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

extreme

adj. very great in amount or degree

synonym : farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

grain

n. wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

synonym : seed, piece, cereal

(1) a **grain** of sand, (2) flour made from **grain**

Ordinary air purifiers cannot adequately remove pollen **grains**.

sand

n. finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

synonym : grit, dust, powder

(1) **sand** dunes, (2) **sand** castle

The **sand** on the beach was warm and golden.

volume

n. the amount of space occupied by an object or substance; the magnitude of sound

synonym : capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

temperature

n. the degree of hotness or coldness of a thing or place

synonym : climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric **temperature**

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

particle

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

synonym: atom, grain, bit

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

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

autograph

n. a person's signature or handwritten inscription, especially that of a famous or admired individual

synonym: signature, sign-off, inscription

(1) **autograph** collection, (2) celebrity **autograph**

I was thrilled to get the **autograph** of my favorite musician after the concert.

unfortunately

adv. by bad luck; unluckily

synonym: regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

purity

n. the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature

synonym: sinlessness, innocence, cleanliness

(1) the degree of **purity**, (2) high **purity**

Higher **purity** requires additional equipment and energy.

hypothesis

n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

synonym: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**

This evidence supports the big-bang **hypothesis**.

foundation

n. the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

synonym: base, support, groundwork

(1) **foundation** course, (2) weak **foundation**

The **foundation** of the building was cracked and needed to be repaired.

atomic

adj. of or relating to atom (= the smallest component of an element)

synonym: tiny, microscopic, nuclear

(1) **atomic** nucleus, (2) **atomic** bomb

Carbon has an **atomic** mass of 12.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym: enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity

We had a **tremendous** time yesterday.

balloon

n. a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated

synonym: aerostat, blimp, (verb) billow out

(1) **balloon** ride, (2) **balloon** into a severe political problem

The satellite **balloon** slowly ascended into the sky.

degree

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym: level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

atmosphere

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

synonym : air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial

atmosphere

The spaceship began to burn up as it approached the Earth's **atmosphere**.

precise

adj. sharply exact or accurate or delimited

synonym : accurate, exact, distinct

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

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

container

n. a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land

synonym : receptacle, holder, vessel

(1) plastic **container**, (2) **container** ship

The restaurant uses large **containers** to store its food ingredients.

notation

n. a system of symbols or signs used to represent information or communicate ideas; a written or printed mark or signs used to indicate musical notes, mathematical formulas, or linguistic elements

synonym : annotation, record, symbol

(1) numeric **notation**, (2) mathematical **notation**

The music sheet had a complex musical **notation** that was difficult to understand.

mislead

v. to cause someone to believe something that is not true

synonym : misinform, delude, belie

(1) **mislead** him into trusting her, (2) **mislead** the enemy

Our troops pulled back to **mislead** the enemy.

kinetic

adj. of or relating to motion or the forces that cause motion

synonym : active, dynamic, lively

(1) **kinetic** friction, (2) **kinetic** motion

The **kinetic** energy of the falling object increased as it fell.

gram

n. a metric unit of weight equal to one-thousandth of a kilogram

(1) centimeter- **gram-second** system, (2) **gram** amount

How much is it per one hundred **grams**?

teaspoon

n. a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving

(1) **teaspoon** measurement, (2) lick a **teaspoon**

You only need a **teaspoon** of salt to enhance the soup's flavor.

refer

v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

synonym: cite, allude, mention

(1) **refer** to a book, (2) **refer** to a map

Please **refer** to the instruction manual for further assistance.

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.

magnitude

n. the extent, level, importance, or amount of something

synonym: size, extent, level

(1) a star of the first **magnitude**, (2) the **magnitude** of the disaster

The **magnitude** of the earthquake was measured at 7.8 on the Richter scale.

molar

n. one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective)

describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)

synonym : tooth, grinder, premolar

(1) **molar** tooth, (2) **molar** absorbancy index

I have a cavity in my **molar** and need to see the dentist.

bundle

n. a group of things that are tied or wrapped together; a large amount or quantity of something; a package or parcel of things

synonym : package, parcel, bale

(1) **bundle** of papers, (2) travel **bundle**

I tied up the **bundle** of newspapers and took them to the recycling center.

stud

n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

synonym : beam, scantling, framing

(1) horse **stud**, (2) wall **stud**

He bought a new **stud** to attach the strap to his watch.

wrap

v. 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.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym : intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

exchange

- v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

synonym: trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words

My sister and I frequently **exchange** books, as we love reading.

dough

- n.* a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta

synonym: flour, mix

(1) work **dough**, (2) **dough** for pastry

She mixed flour, yeast, sugar, and water to make **dough** for the bread.

depth

- n.* the distance between the top and bottom of something; between the top surface and a distance below it

synonym: deepness, profoundness, extent

(1) **depth** camera, (2) the **depth** of the water

The pond's **depth** was around five feet.

planet

- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

penny

- n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent

synonym: cent, coin, copper

(1) **penny** stock, (2) save a **penny**

I found a lucky **penny** on the ground while walking to work

this morning.

- doll** *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
synonym: puppet, dolly, toy
(1) plastic **doll**, (2) rag **doll**
The antique **doll** was worth thousands of dollars.
- pound** *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
(1) three-fourths of a **pound**, (2) thousands of **pounds**
The car's front bumper cost fifteen hundred **pounds**.
- grocery** *n.* a shop that sells food and other household items
synonym: foodstuff, market
(1) the **grocery** business, (2) run a **grocery**
I will go to the **grocery** store to buy food for dinner.
- slice** *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
synonym: piece, portion, slit
(1) a **slice** of the company's revenue, (2) **slice** a tomato thin
The children complained because one **slice** of cake was slightly larger than the other.
- salami** *n.* a type of cured meat, typically made from beef or pork and sliced thinly for use in sandwiches or as an appetizer
synonym: sausage, deli meat
(1) sliced **salami**, (2) garlic **salami**
I always add **salami** to my pizza toppings for extra flavor.
- probable** *adj.* likely to happen or likely to be true
synonym: likely, possible, potential
(1) **probable** outcome, (2) **probable** cause of a fire

It seems **probable** that he has forgotten our scheduled meeting.

gross

adj. being the total amount of something before any deductions; obese and ugly or unpleasant

synonym : before tax, total, abhorrent

(1) the **gross** amount, (2) **gross** injustice

The drastic reorganization has significantly increased this company's **gross** profits.

ream

n. a unit of measurement for the quantity of paper, usually equal to 500 sheets; a large quantity of something

synonym : batch, heap, ton

(1) **ream** weight, (2) **ream** of ideas

I need to buy a **ream** of printer paper for the office.

conjure

v. to call forth by magic; to create or bring about through the imagination

synonym : summon, evoke, call forth

(1) **conjure** evil spirits away, (2) **conjure** a vision

The magician **conjured** up a rabbit out of thin air.

fuzzy

adj. having a soft and indistinct outline or covered with fine, soft, and hairlike fibers

synonym : hazy, blurry, indistinct

(1) **fuzzy** logic, (2) **fuzzy** memory

The picture was **fuzzy** because it was taken with an old camera.

Session 2: Spelling

1. wall s__d
n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
2. save the pl___t
n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
3. co_____e evil spirits away
v. to call forth by magic; to create or bring about through the imagination
4. work do__h
n. a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta
5. co_____t car
n. an idea or principle associated with something abstract
6. pl___t like the Earth
n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
7. bu___e of papers
n. a group of things that are tied or wrapped together; a large amount or quantity of something; a package or parcel of things

ANSWERS: 1. stud, 2. planet, 3. conjure, 4. dough, 5. concept, 6. planet, 7. bundle

8. fu__y memory *adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
9. pr____e analyses *adj.* sharply exact or accurate or delimited
10. tre____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
11. s__d dunes *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
12. mi____d the enemy *v.* to cause someone to believe something that is not true
13. run a gr____y *n.* a shop that sells food and other household items
14. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
15. high pu____y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
16. s__d castle *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

ANSWERS: 8. fuzzy, 9. precise, 10. tremendous, 11. sand, 12. mislead, 13. grocery, 14. stick, 15. purity, 16. sand

17. the gr__s amount *adj.* being the total amount of something before any deductions; obese and ugly or unpleasant
18. ba____n into a severe political problem *n.* a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
19. ex____ge a few friendly words *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
20. small mo____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
21. ki____c friction *adj.* of or relating to motion or the forces that cause motion
22. de____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
23. have fu__y leaves *adj.* covered in fur or a furry material; resembling fur
24. vo____e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
25. thousands of po__ds *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces

ANSWERS: 17. gross, 18. balloon, 19. exchange, 20. molecule, 21. kinetic, 22. destroy, 23. furry, 24. volume, 25. pound

26. a sl__e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
27. pr____le cause of a fire *adj.* likely to happen or likely to be true
28. ex____ge rate *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
29. de__h camera *n.* the distance between the top and bottom of something; between the top surface and a distance below it
30. a convivial atm____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
31. the fu__y skin *adj.* covered in fur or a furry material; resembling fur
32. m__e catcher *n.* small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin
33. w__p up a meeting *v.* to cover or enclose something entirely with paper, cloth, or other material
34. test my hyp____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

ANSWERS: 26. slice, 27. probable, 28. exchange, 29. depth, 30. atmosphere, 31. furry, 32. mole, 33. wrap, 34. hypothesis

35. ex____e sports *adj.* very great in amount or degree
36. pa____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
37. mo__r tooth *n.* one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective) describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)
38. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
39. mo____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
40. co_____er ship *n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land
41. charged pa____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
42. w__p a fish in foil *v.* to cover or enclose something entirely with paper, cloth, or other material
43. co____e a vision *v.* to call forth by magic; to create or bring about through the imagination

ANSWERS: 35. extreme, 36. particle, 37. molar, 38. degree, 39. molecule, 40. container, 41. particle, 42. wrap, 43. conjure

44. gr__s injustice *adj.* being the total amount of something before any deductions; obese and ugly or unpleasant
45. even more unf_____ely *adv.* by bad luck; unluckily
46. a gr__n of sand *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
47. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
48. plastic co_____er *n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land
49. the degree of pu___y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
50. g__m amount *n.* a metric unit of weight equal to one-thousandth of a kilogram
51. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
52. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
53. celebrity au_____ph *n.* a person's signature or handwritten inscription, especially that of a famous or admired individual

ANSWERS: 44. gross, 45. unfortunately, 46. grain, 47. precise, 48. container, 49. purity, 50. gram, 51. chemistry, 52. brain, 53. autograph

54. do__h for pastry *n.* a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta
55. numeric no____on *n.* a system of symbols or signs used to represent information or communicate ideas; a written or printed mark or signs used to indicate musical notes, mathematical formulas, or linguistic elements
56. plastic d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
57. at___c nucleus *adj.* of or relating to atom (= the smallest component of an element)
58. ba_____n ride *n.* a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
59. pr_____le outcome *adj.* likely to happen or likely to be true
60. high vo___e *n.* the amount of space occupied by an object or substance; the magnitude of sound
61. learn new co_____ts *n.* an idea or principle associated with something abstract
62. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
63. the gr_____y business *n.* a shop that sells food and other household items

ANSWERS: 54. dough, 55. notation, 56. doll, 57. atomic, 58. balloon, 59. probable, 60. volume, 61. concept, 62. tremendous, 63. grocery

64. r__m weight *n.* a unit of measurement for the quantity of paper, usually equal to 500 sheets; a large quantity of something
65. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
66. mathematical no_____on *n.* a system of symbols or signs used to represent information or communicate ideas; a written or printed mark or signs used to indicate musical notes, mathematical formulas, or linguistic elements
67. flour made from gr__n *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
68. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
69. half qu_____ty *n.* the amount or number of something; magnitude
70. unf_____ely caught in a shower *adv.* by bad luck; unluckily
71. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
72. lick a te_____on *n.* a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
73. sl__e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

ANSWERS: 64. ream, 65. universe, 66. notation, 67. grain, 68. atmosphere, 69. quantity, 70. unfortunately, 71. temperature, 72. teaspoon, 73. slice

74. mi____d him into trusting her *v.* to cause someone to believe something that is not true
75. ki____c motion *adj.* of or relating to motion or the forces that cause motion
76. te____on measurement *n.* a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
77. r__m of ideas *n.* a unit of measurement for the quantity of paper, usually equal to 500 sheets; a large quantity of something
78. horse s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
79. three-fourths of a po__d *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
80. artificial cr____re *n.* a living being, especially an animal
81. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
82. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 74. mislead, 75. kinetic, 76. teaspoon, 77. ream, 78. stud, 79. pound, 80. creature, 81. stick, 82. brain

83. ex_____e weather events *adj.* very great in amount or degree
84. re__r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
85. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
86. the de__h of the water *n.* the distance between the top and bottom of something; between the top surface and a distance below it
87. centimeter-g__m-second system *n.* a metric unit of weight equal to one-thousandth of a kilogram
88. au_____ph collection *n.* a person's signature or handwritten inscription, especially that of a famous or admired individual
89. neutral hydrogen a__ms *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
90. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
91. a star of the first ma_____de *n.* the extent, level, importance, or amount of something
92. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
93. weak fou_____on *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

ANSWERS: 83. extreme, 84. refer, 85. universe, 86. depth, 87. gram, 88. autograph,

89. atom, 90. temperature, 91. magnitude, 92. destroy, 93. foundation

94. rag d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
95. at___c bomb *adj.* of or relating to atom (= the smallest component of an element)
96. mo__r absorbancy index *n.* one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective) describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)
97. fu__y logic *adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
98. garlic sa___i *n.* a type of cured meat, typically made from beef or pork and sliced thinly for use in sandwiches or as an appetizer
99. m__e planted by the FBI *n.* small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin
100. the ma_____de of the disaster *n.* the extent, level, importance, or amount of something
101. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 94. doll, 95. atomic, 96. molar, 97. fuzzy, 98. salami, 99. mole, 100. magnitude, 101. chemistry

102. re__r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
103. cr____re of habit *n.* a living being, especially an animal
104. a bold hyp____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
105. residual qu____ty *n.* the amount or number of something; magnitude
106. travel bu____e *n.* a group of things that are tied or wrapped together; a large amount or quantity of something; a package or parcel of things
107. save a pe__y *n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
108. bachelor's de____e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
109. sliced sa____i *n.* a type of cured meat, typically made from beef or pork and sliced thinly for use in sandwiches or as an appetizer
110. pe__y stock *n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent

ANSWERS: 102. refer, 103. creature, 104. hypothesis, 105. quantity, 106. bundle, 107. penny, 108. degree, 109. salami, 110. penny

111. oxygen a__m

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

112. fou_____on course

n. the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

ANSWERS: 111. atom, 112. foundation

Session 3: Fill in the Blanks

1. You only need a _____ of salt to enhance the soup's flavor.
n. a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
2. Our troops pulled back to _____ the enemy.
v. to cause someone to believe something that is not true
3. We had a _____ time yesterday.
adj. very great in degree or extent or amount or impact; extremely good
4. The _____ burrowed in the ground.
n. small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin
5. The stuffed animal was so _____ and soft that it was hard to resist hugging it.
adj. covered in fur or a furry material; resembling fur
6. He bought a new _____ to attach the strap to his watch.
n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
7. I always add _____ to my pizza toppings for extra flavor.
n. a type of cured meat, typically made from beef or pork and sliced thinly for use in sandwiches or as an appetizer

ANSWERS: 1. teaspoon, 2. mislead, 3. tremendous, 4. mole, 5. furry, 6. stud, 7. salami

8. _____ the bandage tightly around the injured arm.
v. to cover or enclose something entirely with paper, cloth, or other material
9. The drastic reorganization has significantly increased this company's _____ profits.
adj. being the total amount of something before any deductions; obese and ugly or unpleasant
10. He is familiar with _____ and biology.
n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions
11. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
12. In southward, the average annual water _____ increases.
n. the amount or number of something; magnitude
13. The _____ of the building was cracked and needed to be repaired.
n. the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
14. The _____ on the beach was warm and golden.
n. finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

ANSWERS: 8. Wrap, 9. gross, 10. chemistry, 11. universe, 12. quantity, 13. foundation, 14. sand

15. I will go to the _____ store to buy food for dinner.
n. a shop that sells food and other household items
16. You _____ a bill in the change machine, and the coins pop out.
v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
17. The treatments were done but, _____ were unsuccessful.
adv. by bad luck; unluckily
18. Ordinary air purifiers cannot adequately remove pollen _____.
n. wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
19. Solar gravity creates _____ pressures and temperatures.
adj. very great in amount or degree
20. The satellite _____ slowly ascended into the sky.
n. a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
21. The music sheet had a complex musical _____ that was difficult to understand.
n. a system of symbols or signs used to represent information or communicate ideas; a written or printed mark or signs used to indicate musical notes, mathematical formulas, or linguistic elements
22. The shape of the DNA _____ is a double helix.
n. a group of two or more atoms held together by attractive forces known as chemical bonds

ANSWERS: 15. grocery, 16. stick, 17. unfortunately, 18. grains, 19. extreme, 20. balloon, 21. notation, 22. molecule

23. I was thrilled to get the _____ of my favorite musician after the concert.
n. a person's signature or handwritten inscription, especially that of a famous or admired individual
24. The content is _____ and informative for me.
adj. sharply exact or accurate or delimited
25. The picture was _____ because it was taken with an old camera.
adj. having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
26. The restaurant uses large _____ to store its food ingredients.
n. a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land
27. The _____ of the earthquake was measured at 7.8 on the Richter scale.
n. the extent, level, importance, or amount of something
28. The antique _____ was worth thousands of dollars.
n. a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
29. The pond's _____ was around five feet.
n. the distance between the top and bottom of something; between the top surface and a distance below it
30. The car's front bumper cost fifteen hundred _____.
n. the standard unit of money in the UK; the standard unit of weight equal to 16 ounces

ANSWERS: 23. autograph, 24. precise, 25. fuzzy, 26. containers, 27. magnitude, 28. doll, 29. depth, 30. pounds

31. My sister and I frequently _____ books, as we love reading.
- v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
32. How much is it per one hundred _____
- n.* a metric unit of weight equal to one-thousandth of a kilogram
33. Higher _____ requires additional equipment and energy.
- n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
34. The deep sea _____ was unlike anything the scientists had ever seen before.
- n.* a living being, especially an animal
35. The spaceship began to burn up as it approached the Earth's _____.
- n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
36. She mixed flour, yeast, sugar, and water to make _____ for the bread.
- n.* a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta
37. The magician _____ up a rabbit out of thin air.
- v.* to call forth by magic; to create or bring about through the imagination
38. Mercury is the closest _____ to the sun.
- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 31. exchange, 32. grams?, 33. purity, 34. creature, 35. atmosphere, 36. dough, 37. conjured, 38. planet

39. I need to buy a _____ of printer paper for the office.
n. a unit of measurement for the quantity of paper, usually equal to 500 sheets; a large quantity of something
40. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
41. 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
42. The building was _____ in the fire and had to be rebuilt.
v. to ruin or damage severely or completely; to eradicate or eliminate completely
43. This container has a _____ of 10 cubic meters.
n. the amount of space occupied by an object or substance; the magnitude of sound
44. 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
45. Carbon has an _____ mass of 12.
adj. of or relating to atom (= the smallest component of an element)
46. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
47. I have a cavity in my _____ and need to see the dentist.
n. one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective) describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)

ANSWERS: 39. ream, 40. temperatures, 41. atom, 42. destroyed, 43. volume, 44. particles, 45. atomic, 46. concept, 47. molar

48. I found a lucky _____ on the ground while walking to work this morning.

n. a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent

49. The _____ energy of the falling object increased as it fell.

adj. of or relating to motion or the forces that cause motion

50. X-rays revealed a small tumor in his _____.

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

51. It seems _____ that he has forgotten our scheduled meeting.

adj. likely to happen or likely to be true

52. I tied up the _____ of newspapers and took them to the recycling center.

n. a group of things that are tied or wrapped together; a large amount or quantity of something; a package or parcel of things

53. This evidence supports the big-bang _____.

n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

54. The children complained because one _____ of cake was slightly larger than the other.

n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

55. She received her _____ in psychology from the university.

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

ANSWERS: 48. penny, 49. kinetic, 50. brain, 51. probable, 52. bundle, 53. hypothesis, 54. slice, 55. degree

56. Please _____ to the instruction manual for further assistance.

- v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

ANSWERS: 56. refer