



Vocabulary Builder Reference from...

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All Words

IMPORTANT

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Session 1: Word List

physics

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

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.

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.

negative

adj. having the quality of something bad or harmful; expressing refusal
synonym: minus, adverse, pessimistic
(1) have a **negative** effect, (2) a **negative** number
The movie has received almost universally **negative** criticism.

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.

metric

adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

synonym : metrical, measured

(1) **metric** units, (2) key performance **metrics**

In the **metric** system, measurements are made in meters and liters.

mechanical

adj. operated by a machine, relating to or concerned with machinery or tools

synonym : machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

crank

n. a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person

synonym : eccentric, oddball, kook

(1) **crank** handle, (2) **crank** caller

The fishing reel had a **crank** that made it easy to reel in the catch.

cylinder

n. a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this

(1) a six- **cylinder** engine, (2) a ventilation **cylinder**

The gas was trapped inside the **cylinders** under high pressure.

gravitational

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

synonym : weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

calculate

v. 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.

multiply

v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

synonym : boost, amplify, reproduce

(1) **multiply** 5 and 6, (2) **multiply** about hundredfold

Multiply a number by itself twice.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym : space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

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**.

downward

adj. moving towards a lower position or a lower level

synonym : lower, earthward, descending

(1) a **downward** slope, (2) maintain **downward** compatibility

The stock market has been in a **downward** trend for the past month.

lift

v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position

synonym : raise, elevate, move up

(1) **lift** sagging skin, (2) **lift** a ban on alcohol

The drought **lifted** the prices of grain globally.

joule

n. the unit of measurement for energy in the International System of Units (SI), equal to the work done by a force of one newton when its point of application moves one meter in the direction of the force

synonym : calorie

(1) measure energy in **joules**, (2) **joule** heating

A 60-watt light bulb uses 60 **joules** of energy per second.

watt

n. a standard unit for measuring electrical power

(1) 30- **watt** light bulb, (2) **watt** per square meter

Several hectares of land are needed to generate more than 1-mega **watt** solar power.

horsepower

n. a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time

synonym : HP, power, energy

(1) maximum **horsepower**, (2) engine **horsepower**

The company's new generator has a **horsepower** rating of 1000, making it ideal for large buildings.

typical

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

synonym : characteristic, usual, distinctive

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

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

industrial

adj. of or relating to or resulting from industry

synonym : manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

Industrial design has become more focused on human nature aspect than ever before.

engine

n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

synonym : motor, locomotive, driver

(1) a steam **engine**, (2) an air-cooled **engine**

The policies he announces can be the **engine** of economic growth in the country.

comparison

n. the consideration or examination of the similarities between two or more people or things

synonym : equivalence, analogy, contrast

(1) ease of **comparison**, (2) **comparison** of foods on a caloric basis

I've included the two designs for a **comparison**.

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.

footstep

n. a step, or the sound generated by a person walking when their foot hits the ground

synonym : footfall, step

(1) **footsteps** in the corridor, (2) approaching **footsteps**

The sound of oncoming **footsteps** grew louder, closer.

bulb

n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

(1) wet- **bulb** thermometer, (2) a lily **bulb**

The light **bulb** has burned out.

divide

v. to separate or cause to separate into parts or groups
synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

deposit

n. a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force

synonym: bank, installment, sedimentation

(1) **deposit** money, (2) **deposit** accumulation

I made a **deposit** at the bank to add money to my account.

medium

adj. of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

synonym: average, intermediate, (noun) channel

(1) **medium** color, (2) an advertising **medium**

The **medium** size shirt fits him perfectly.

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.

conclude

v. to come to an end or close; to reach a judgment or opinion by reasoning

synonym: complete, finish, decide

(1) **conclude** a meeting, (2) **conclude** that he is healthy
We **concluded** a cease-fire.

Session 2: Spelling

1. maximum hor_____er
n. a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time
2. measure energy in jo__es
n. the unit of measurement for energy in the International System of Units (SI), equal to the work done by a force of one newton when its point of application moves one meter in the direction of the force
3. l__t a ban on alcohol
v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position
4. wet-b__b thermometer
n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
5. engine hor_____er
n. a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time
6. ca_____te the distance
v. to judge or find out the amount or number of something by using mathematics
7. a lily b__b
n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

ANSWERS: 1. horsepower, 2. joule, 3. lift, 4. bulb, 5. horsepower, 6. calculate, 7. bulb

8. de____t accumulation *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
9. 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
10. mu____ly about hundredfold *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
11. w__t per square meter *n.* a standard unit for measuring electrical power
12. de____t money *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
13. a six-cy____er engine *n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this
14. tr____er power *v.* to move, pass, or change from one person, place, or situation to another
15. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

ANSWERS: 8. deposit, 9. gravity, 10. multiply, 11. watt, 12. deposit, 13. cylinder, 14. transfer, 15. gravitational

16. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another
17. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
18. approaching fo_____eps *n.* a step, or the sound generated by a person walking when their foot hits the ground
19. a do_____rd slope *adj.* moving towards a lower position or a lower level
20. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
21. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
22. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
23. l__t sagging skin *v.* to raise something to a higher position or level; to pick up something or somebody and move them to a different position
24. laws of ph_____s *n.* the science of matter and energy and their interactions
25. com_____on of foods on a caloric basis *n.* the consideration or examination of the similarities between two or more people or things
26. co_____de a meeting *v.* to come to an end or close; to reach a judgment or opinion by reasoning
27. ind_____al alcohol *adj.* of or relating to or resulting from industry

ANSWERS: 16. transfer, 17. mechanical, 18. footstep, 19. downward, 20. gravitational, 21. amazing, 22. amazing, 23. lift, 24. physics, 25. comparison, 26. conclude, 27. industrial

28. 30-w__t light bulb *n.* a standard unit for measuring electrical power
29. a ne____ve number *adj.* having the quality of something bad or harmful; expressing refusal
30. half qu____ty *n.* the amount or number of something; magnitude
31. ty____l leader *adj.* having the usual characteristics or traits of a specific group of things
32. 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
33. fairly ty____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
34. 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
35. me____c units *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
36. 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
37. an air-cooled en____e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

ANSWERS: 28. watt, 29. negative, 30. quantity, 31. typical, 32. universe, 33. typical, 34. universe, 35. metric, 36. gravity, 37. engine

38. co____de that he is healthy *v.* to come to an end or close; to reach a judgment or opinion by reasoning
39. ease of com_____on *n.* the consideration or examination of the similarities between two or more people or things
40. jo__e heating *n.* the unit of measurement for energy in the International System of Units (SI), equal to the work done by a force of one newton when its point of application moves one meter in the direction of the force
41. cr__k handle *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
42. social di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
43. learn new co_____ts *n.* an idea or principle associated with something abstract
44. have a ne_____ve effect *adj.* having the quality of something bad or harmful; expressing refusal
45. mu_____ly 5 and 6 *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
46. key performance me____cs *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

ANSWERS: 38. conclude, 39. comparison, 40. joule, 41. crank, 42. distance, 43. concept, 44. negative, 45. multiply, 46. metric

47. a steam en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
48. an advertising me___m *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
49. a mec____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
50. maintain do____rd compatibility *adj.* moving towards a lower position or a lower level
51. fo____eps in the corridor *n.* a step, or the sound generated by a person walking when their foot hits the ground
52. a ventilation cy____er *n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this
53. residual qu____ty *n.* the amount or number of something; magnitude
54. ca____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
55. me___m color *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
56. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups

ANSWERS: 47. engine, 48. medium, 49. mechanical, 50. downward, 51. footstep, 52. cylinder, 53. quantity, 54. calculate, 55. medium, 56. divide

Session 3: Fill in the Blanks

1. 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
2. The movie has received almost universally _____ criticism.
adj. having the quality of something bad or harmful; expressing refusal
3. _____ design has become more focused on human nature aspect than ever before.
adj. of or relating to or resulting from industry
4. In the _____ system, measurements are made in meters and liters.
adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
5. A 60-watt light bulb uses 60 _____ of energy per second.
n. the unit of measurement for energy in the International System of Units (SI), equal to the work done by a force of one newton when its point of application moves one meter in the direction of the force
6. Several hectares of land are needed to generate more than 1-mega_____ solar power.
n. a standard unit for measuring electrical power
7. In southward, the average annual water _____ increases.
n. the amount or number of something; magnitude
8. The policies he announces can be the _____ of economic growth in the country.
n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

ANSWERS: 1. transferred, 2. negative, 3. Industrial, 4. metric, 5. joules, 6. watt, 7. quantity, 8. engine

9. The stock market has been in a _____ trend for the past month.
adj. moving towards a lower position or a lower level
10. The fishing reel had a _____ that made it easy to reel in the catch.
n. a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
11. _____ a number by itself twice.
v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
12. The light _____ has burned out.
n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
13. He couldn't _____ the actual value of the artwork.
v. to judge or find out the amount or number of something by using mathematics
14. The sound of oncoming _____ grew louder, closer.
n. a step, or the sound generated by a person walking when their foot hits the ground
15. I made a _____ at the bank to add money to my account.
n. a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
16. 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

ANSWERS: 9. downward, 10. crank, 11. Multiply, 12. bulb, 13. calculate, 14. footsteps, 15. deposit, 16. universe

17. A _____ engineer is still in demand in many companies.

adj. operated by a machine, relating to or concerned with machinery or tools

18. 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

19. I've included the two designs for a _____.

n. the consideration or examination of the similarities between two or more people or things

20. Can you _____ 123321 by eleven?

v. to separate or cause to separate into parts or groups

21. The drought _____ the prices of grain globally.

v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position

22. The golfer recorded an _____ distance.

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

23. The _____ size shirt fits him perfectly.

adj. of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

24. The gas was trapped inside the _____ under high pressure.

n. a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this

ANSWERS: 17. mechanical, 18. gravity, 19. comparison, 20. divide, 21. lifted, 22. amazing, 23. medium, 24. cylinders

25. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

26. We _____ a cease-fire.

v. to come to an end or close; to reach a judgment or opinion by reasoning

27. This artwork is _____ of her work.

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

28. The _____ force of the black hole was so strong that nothing, not even light, could escape.

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

29. The company's new generator has a _____ rating of 1000, making it ideal for large buildings.

n. a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time

30. The marathon runner covered a long _____ in a short amount of time.

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

31. One such rapidly growing _____ is quantum cryptography.

n. an idea or principle associated with something abstract

ANSWERS: 25. physics, 26. concluded, 27. typical, 28. gravitational, 29. horsepower, 30. distance, 31. concept