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TED-Ed: How much land does it take to power the world? | TED Talk

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

All Words

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Session 1: Word List

electrify

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

synonym: wire, amaze, astonish

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

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

coal

n. a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

synonym: ember

(1) a **coal-fired** ship, (2) construction of new **coal** plants

We combust **coal** and other fossil fuels to generate electricity.

convert

v. to have a talk with someone; (adjective) reversed in order, relation, or action

synonym: alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16

I want to **convert** my sadness into strength.

nuclear

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

synonym : atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

uranium

n. a chemical element with the symbol U, atomic number 92, that is a dense, silvery-white metal that is radioactive and is used as a fuel for nuclear power plants

synonym : U

(1) **uranium** mining, (2) radioactive **uranium** isotope

The mining and processing of **uranium** can lead to releasing radioactive materials into the environment.

facility

n. a building or place that provides a particular service or is used for a particular industry

synonym : building, structure, installation

(1) a cell phone with an internet **facility**, (2) **facility** design

This company has an entire recycling **facility**, including major reprocessing plants.

refine

v. to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development

synonym : purify, process, improve

(1) **refine** oil, (2) **refine** a language

The company is working to **refine** its production process to be more efficient.

react

v. to take action in response to something

synonym : respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking

How did he **react** to your idea?

- fuel** *n.* a substance that is typically burned to generate heat or energy
synonym: energy, power, gas
(1) biomass **fuel**, (2) smokeless **fuel**
The **fuel** scarcity most severely impacted the manufacturing sector
- renewable** *adj.* capable of being renewed, extended, or replaced
synonym: sustainable, replaceable
(1) **renewable** energy, (2) **renewable** subscriptions
The production of **renewable** fuels requires massive volumes of fresh water.
- turbine** *n.* a machine that rotates to generate power from fluids such as water or gas
synonym: engine, generator, power plant
(1) **turbine** energy, (2) **turbine** aerofoil
The wind **turbines** were spinning rapidly, generating clean energy for the nearby town.
- panel** *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
synonym: board, commission, discussion
(1) **panel** discussion, (2) cost of solar **panels**
A **panel** of economic advisers from the United States visited the country to help rebuild its economy.
- 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.

fossil

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

synonym : relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf

It was the **fossil** of a dinosaur tooth.

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.

creditor

n. a person, company, etc. to whom a debtor owes money

(1) the **creditor's** claims, (2) bankrupt **creditor**

I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

chunk

n. a thick and solid mass or piece of something

synonym : block, lump, piece

(1) a **chunk** of money, (2) a tiny **chunk** of meat

The new start-up company carved out a large **chunk** of the market within a year.

palm

n. the inner surface of the hand from the wrist to the base of the fingers; any plant of the family *Palmae* having an unbranched trunk crowned by large pinnate or palmate leaves

synonym : hand, fist

(1) the **palm** side of the forearm, (2) coconut **palm** trees

This high-performance camera is compact enough to fit in the **palm** of your hand.

cafeteria

n. a restaurant where customers serve themselves from a counter and pay for what they have taken, often found in factories, colleges, hospitals, etc.

synonym : canteen, mess hall, restaurant

(1) **cafeteria** lunch, (2) office **cafeteria**

The university's **cafeteria** was busy with students and staff grabbing a quick lunch.

tray *n.* a shallow, flat container or surface for holding or carrying objects, often with raised edges or handles
synonym: platter, dish, plate
(1) serving **tray**, (2) **tray** for drinks
She placed the dishes on the **tray** and carried them to the table.

roughly *adv.* approximately but not precisely; with a violent manner
synonym: approximately, more or less, around
(1) **roughly** explain my idea, (2) **roughly** speaking
Five miles is **roughly** similar to eight kilometers.

trillion *n.* the number 1,000,000,000,000; a million million
(1) **trillion** cubic feet, (2) many **trillions** of dollars
One light year is nearly 6 **trillion** miles.

grand *adj.* important and large in size, scope, or extent
synonym: impressive, great, ambitious
(1) a **grand** meal, (2) **grand** bargain
This year's **grand** gathering will be held in Canada.

approximately *adv.* close to a specific number or time but not exactly that number or time
synonym: about, around, roughly
(1) **approximately** 3 feet long, (2) **approximately** same
This trail takes **approximately** 2.5 hours.

variability *n.* the fact or quality of something being likely to vary
synonym: variance, unevenness, inconstancy
(1) natural **variability**, (2) climate **variability**
There is considerable **variability** in all the test scores.

infrastructure

n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

synonym : foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost

Aging societies tend to require huge costs for **infrastructure** maintenance.

desert

n. arid land with little or no vegetation often covered with sand or rocks

(1) **desert** basin, (2) oasis in the **desert**

This region is predominantly **desert**.

rainforest

n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

(1) **rainforest** destruction, (2) tropical **rainforest**

The destruction of the **rainforest** is a ticking time bomb for the Earth.

prospect

n. the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals

synonym : hope, possibility, expectation

(1) **prospect** for gold, (2) job **prospects**

The **prospect** of starting a new business can be both exciting and daunting.

monopolize

v. (business) to have complete control or dominance over a particular market or industry, often to the exclusion of other competitors

synonym : dominate, control, corner

(1) **monopolize** the podium, (2) **monopolize** the industry

The large corporation sought to **monopolize** the market by buying out its competitors.

occupy

v. to consume all of someone's space, attention, or time
synonym : inhabit, settle, populate

(1) **occupy** his time, (2) **occupy** a position

The young prince will soon **occupy** the throne.

extent

n. the point or degree or area to which something extends
synonym : amount, degree, intensity

(1) certain **extent**, (2) the **extent** of the damage

I was amazed at the **extent** of her generosity.

turbulence

n. a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight

synonym : choppiness, tumult, agitation

(1) financial **turbulence**, (2) emotional **turbulence**

The ride on the rollercoaster was full of dips and turns, creating a feeling of **turbulence**.

efficiency

n. the state or quality of doing something well with no waste of input such as time or money

synonym : effectiveness, efficacy, productivity

(1) better fuel **efficiency**, (2) an energy **efficiency**

Our company must continue to strive for greater **efficiency**.

baseline

n. a starting point or minimum for comparing facts; the back line bounding each end of a tennis or handball court

synonym : standard, criterion

(1) **baseline** budget, (2) establish a **baseline**

The products they sell are the **baseline** for performance in the industry.

dense

adj. containing a large number of people or something with little space between them

synonym : heavy, thick, idiotic

(1) nutrient- **dense** foods, (2) **dense** forests

The entire mountain is covered in **dense** rainforest.

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.

equation

n. the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign

(1) the **equation** of poverty with ignorance, (2) a chemical **equation**

In this class, you will learn how to solve quadratic **equations**.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym : accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

greenhouse

n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

synonym : conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

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**.

accelerate

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

synonym : speed up, quicken, rev

(1) **accelerate** a chemical reaction, (2) **accelerate** the car
The government tried to **accelerate** the commercialization of this development.

climate

n. the weather in a particular location averaged over some long period

synonym : atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change
Climate and weather have an impact on every part of our lifestyles.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym : depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him
Babies heavily **rely** on others for food.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym : give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution
During the unloading, the container box **emits** a clicking sound.

marginal

adj. of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective

synonym : fringy, peripheral, borderline

(1) **marginal** note, (2) **marginal** cost

The company's profits have only been **marginal** this year, but they're hoping for a better year.

sunlight

n. the light emitted by the sun; the rays of the sun
synonym: daylight, rays, sunshine

(1) a glare of **sunlight**, (2) in direct **sunlight**

Radiation from **sunlight** has a different wavelength.

eliminate

v. to remove or get rid of someone or something
synonym: wipe out, destroy, eradicate

(1) **eliminate** contestants, (2) **eliminate** sexual barriers

We can **eliminate** this possibility from those consumptions.

emission

n. the act of production or sending out gas, heat, light, etc.
synonym: emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

replace

v. to take the place of something
synonym: substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone

Eventually, the new design will **replace** all older models.

transport

n. a system for moving people or products from one location to another using automobiles, roads, and so on
synonym: shipment, transit, conveyance

(1) **transport** facilities, (2) access to public **transport**

Enhanced rail **transportation** is crucial for our business.

Session 2: Spelling

1. oasis in the de___t *n.* arid land with little or no vegetation often covered with sand or rocks
2. nutrient-de__e foods *adj.* containing a large number of people or something with little space between them
3. climate var_____ty *n.* the fact or quality of something being likely to vary
4. natural var_____ty *n.* the fact or quality of something being likely to vary
5. re_____e a phone *v.* to take the place of something
6. app_____ely 3 feet long *adv.* close to a specific number or time but not exactly that number or time
7. the cr_____or's claims *n.* a person, company, etc. to whom a debtor owes money
8. re___e a language *v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
9. oc___y his time *v.* to consume all of someone's space, attention, or time
10. use of nu_____r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
11. exotic plants in a gre_____se *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

ANSWERS: 1. desert, 2. dense, 3. variability, 4. variability, 5. replace, 6. approximately, 7. creditor, 8. refine, 9. occupy, 10. nuclear, 11. greenhouse

12. re_____le energy *adj.* capable of being renewed, extended, or replaced
13. el_____te contestants *v.* to remove or get rid of someone or something
14. re__t against his way of thinking *v.* to take action in response to something
15. a cell phone with an internet
fa_____ty *n.* a building or place that provides a particular service or is used for a particular industry
16. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
17. the eq_____on of poverty with
ignorance *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
18. oc_____y a position *v.* to consume all of someone's space, attention, or time
19. the ex_____t of the damage *n.* the point or degree or area to which something extends
20. nu_____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
21. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
22. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly

ANSWERS: 12. renewable, 13. eliminate, 14. react, 15. facility, 16. transport, 17. equation, 18. occupy, 19. extent, 20. nuclear, 21. electrify, 22. accelerate

23. certain ex__t *n.* the point or degree or area to which something extends
24. co__t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
25. ro__y speaking *adv.* approximately but not precisely; with a violent manner
26. access to public tr____rt *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
27. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
28. de__e forests *adj.* containing a large number of people or something with little space between them
29. financial tur____ce *n.* a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
30. serving t__y *n.* a shallow, flat container or surface for holding or carrying objects, often with raised edges or handles
31. emissions of gre____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
32. inf____ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
33. ro__y explain my idea *adv.* approximately but not precisely; with a violent manner

ANSWERS: 23. extent, 24. convert, 25. roughly, 26. transport, 27. emit, 28. dense, 29. turbulence, 30. tray, 31. greenhouse, 32. infrastructure, 33. roughly

34. an energy eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
35. de____t basin *n.* arid land with little or no vegetation often covered with sand or rocks
36. a tiny ch__k of meat *n.* a thick and solid mass or piece of something
37. the em_____on of light *n.* the act of production or sending out gas, heat, light, etc.
38. re____e oil *v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
39. 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
40. acc_____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
41. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
42. better fuel eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
43. el_____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

ANSWERS: 34. efficiency, 35. desert, 36. chunk, 37. emission, 38. refine, 39. distance, 40. accelerate, 41. rainforest, 42. efficiency, 43. electrify

44. pr_____ct for gold *n.* the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals
45. a cold cl_____e *n.* the weather in a particular location averaged over some long period
46. IT inf_____ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
47. in direct su_____ht *n.* the light emitted by the sun; the rays of the sun
48. driving 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
49. a ch__k of money *n.* a thick and solid mass or piece of something
50. co_____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
51. re_____le subscriptions *adj.* capable of being renewed, extended, or replaced
52. fa_____ty design *n.* a building or place that provides a particular service or is used for a particular industry

ANSWERS: 44. prospect, 45. climate, 46. infrastructure, 47. sunlight, 48. distance, 49. chunk, 50. convert, 51. renewable, 52. facility

53. bankrupt cr____or *n.* a person, company, etc. to whom a debtor owes money
54. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
55. 30-w__t light bulb *n.* a standard unit for measuring electrical power
56. w__t per square meter *n.* a standard unit for measuring electrical power
57. pa__l discussion *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
58. mon_____ze the industry *v.* (business) to have complete control or dominance over a particular market or industry, often to the exclusion of other competitors
59. biomass f__l *n.* a substance that is typically burned to generate heat or energy
60. app_____ely same *adv.* close to a specific number or time but not exactly that number or time
61. re_____e one word with another *v.* to take the place of something
62. a gr__d meal *adj.* important and large in size, scope, or extent
63. radioactive ur_____m isotope *n.* a chemical element with the symbol U, atomic number 92, that is a dense, silvery-white metal that is radioactive and is used as a fuel for nuclear power plants

ANSWERS: 53. creditor, 54. emit, 55. watt, 56. watt, 57. panel, 58. monopolize, 59. fuel, 60. approximately, 61. replace, 62. grand, 63. uranium

64. el_____te sexual barriers *v.* to remove or get rid of someone or something
65. the p__m side of the forearm *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves
66. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
67. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
68. a c__l-fired ship *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
69. 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
70. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
71. construction of new c__l plants *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
72. ca_____ia lunch *n.* a restaurant where customers serve themselves from a counter and pay for what they have taken, often found in factories, colleges, hospitals, etc.

ANSWERS: 64. eliminate, 65. palm, 66. responsible, 67. fuel, 68. coal, 69. bulb, 70. responsible, 71. coal, 72. cafeteria

73. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
74. 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
75. office ca_____ia *n.* a restaurant where customers serve themselves from a counter and pay for what they have taken, often found in factories, colleges, hospitals, etc.
76. ma_____al cost *adj.* of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective
77. tu_____e aerofoil *n.* a machine that rotates to generate power from fluids such as water or gas
78. burning of fo____l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
79. a glare of su_____ht *n.* the light emitted by the sun; the rays of the sun
80. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
81. establish a ba_____ne *n.* a starting point or minimum for comparing facts; the back line bounding each end of a tennis or handball court
82. t__y for drinks *n.* a shallow, flat container or surface for holding or carrying objects, often with raised edges or handles

ANSWERS: 73. climate, 74. atmosphere, 75. cafeteria, 76. marginal, 77. turbine, 78. fossil, 79. sunlight, 80. rely, 81. baseline, 82. tray

83. ba____ne budget *n.* a starting point or minimum for comparing facts; the back line bounding each end of a tennis or handball court
84. a chemical eq____on *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
85. global em____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
86. re__t at a high temperature *v.* to take action in response to something
87. tu____e energy *n.* a machine that rotates to generate power from fluids such as water or gas
88. tr____on cubic feet *n.* the number 1,000,000,000,000; a million million
89. a fo____l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
90. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
91. many tr____ons of dollars *n.* the number 1,000,000,000,000; a million million
92. ma____al note *adj.* of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective

ANSWERS: 83. baseline, 84. equation, 85. emission, 86. react, 87. turbine, 88. trillion, 89. fossil, 90. rely, 91. trillion, 92. marginal

93. gr__d bargain *adj.* important and large in size, scope, or extent
94. ur____m mining *n.* a chemical element with the symbol U, atomic number 92, that is a dense, silvery-white metal that is radioactive and is used as a fuel for nuclear power plants
95. job pr____cts *n.* the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals
96. mon____ze the podium *v.* (business) to have complete control or dominance over a particular market or industry, often to the exclusion of other competitors
97. coconut p__m trees *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves
98. 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
99. 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

ANSWERS: 93. grand, 94. uranium, 95. prospect, 96. monopolize, 97. palm, 98. bulb, 99. atmosphere

100. rai_____st destruction *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
101. cost of solar pa__ls *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
102. emotional tur_____ce *n.* a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight

ANSWERS: 100. rainforest, 101. panel, 102. turbulence

Session 3: Fill in the Blanks

1. The _____ effect is a phenomenon that happens naturally.
 - n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
2. A _____ of economic advisers from the United States visited the country to help rebuild its economy.
 - n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
3. We combust _____ and other fossil fuels to generate electricity.
 - n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
4. Many countries have now agreed to a treaty banning the use of _____ weapons.
 - adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
5. The new start-up company carved out a large _____ of the market within a year.
 - n.* a thick and solid mass or piece of something
6. How did he _____ to your idea?
 - v.* to take action in response to something
7. Five miles is _____ similar to eight kilometers.
 - adv.* approximately but not precisely; with a violent manner

ANSWERS: 1. greenhouse, 2. panel, 3. coal, 4. nuclear, 5. chunk, 6. react, 7. roughly

8. The young prince will soon _____ the throne.
v. to consume all of someone's space, attention, or time
9. I was amazed at the _____ of her generosity.
n. the point or degree or area to which something extends
10. I want to _____ my sadness into strength.
v. to have a talk with someone; (adjective) reversed in order, relation, or action
11. The government tried to _____ the commercialization of this development.
v. to make something faster or earlier; to cause to develop or progress more quickly
12. The mining and processing of _____ can lead to releasing radioactive materials into the environment.
n. a chemical element with the symbol U, atomic number 92, that is a dense, silvery-white metal that is radioactive and is used as a fuel for nuclear power plants
13. Several hectares of land are needed to generate more than 1-mega_____ solar power.
n. a standard unit for measuring electrical power
14. The _____ of starting a new business can be both exciting and daunting.
n. the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals
15. _____ and weather have an impact on every part of our lifestyles.
n. the weather in a particular location averaged over some long period

ANSWERS: 8. occupy, 9. extent, 10. convert, 11. accelerate, 12. uranium, 13. watt, 14. prospect, 15. Climate

16. 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
17. One light year is nearly 6 _____ miles.
- n.* the number 1,000,000,000,000; a million million
18. During the unloading, the container box _____ a clicking sound.
- v.* to give off or send out something such as light, heat, sound, gas, etc.
19. This region is predominantly _____.
- n.* arid land with little or no vegetation often covered with sand or rocks
20. She placed the dishes on the _____ and carried them to the table.
- n.* a shallow, flat container or surface for holding or carrying objects, often with raised edges or handles
21. This year's _____ gathering will be held in Canada.
- adj.* important and large in size, scope, or extent
22. The company's profits have only been _____ this year, but they're hoping for a better year.
- adj.* of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective
23. Radiation from _____ has a different wavelength.
- n.* the light emitted by the sun; the rays of the sun
24. The company is working to _____ its production process to be more efficient.
- v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development

ANSWERS: 16. atmosphere, 17. trillion, 18. emits, 19. desert, 20. tray, 21. grand, 22. marginal, 23. sunlight, 24. refine

25. This company has an entire recycling _____ including major reprocessing plants.
- n.* a building or place that provides a particular service or is used for a particular industry
26. The entire mountain is covered in _____ rainforest.
- adj.* containing a large number of people or something with little space between them
27. Aging societies tend to require huge costs for _____ maintenance.
- n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
28. The destruction of the _____ is a ticking time bomb for the Earth.
- n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
29. 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
30. In this class, you will learn how to solve quadratic _____.
- n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
31. We can _____ this possibility from those consumptions.
- v.* to remove or get rid of someone or something
32. The wind _____ were spinning rapidly, generating clean energy for the nearby town.
- n.* a machine that rotates to generate power from fluids such as water or gas

ANSWERS: 25. facility, 26. dense, 27. infrastructure, 28. rainforest, 29. bulb, 30. equations, 31. eliminate, 32. turbines

33. There are five distinct _____ at five unique wavelengths.
n. the act of production or sending out gas, heat, light, etc.
34. This high-performance camera is compact enough to fit in the _____ of your hand.
n. the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves
35. The ride on the rollercoaster was full of dips and turns, creating a feeling of _____.
n. a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
36. The university's _____ was busy with students and staff grabbing a quick lunch.
n. a restaurant where customers serve themselves from a counter and pay for what they have taken, often found in factories, colleges, hospitals, etc.
37. Our company must continue to strive for greater _____.
n. the state or quality of doing something well with no waste of input such as time or money
38. Eventually, the new design will _____ all older models.
v. to take the place of something
39. There is considerable _____ in all the test scores.
n. the fact or quality of something being likely to vary
40. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.
n. a person, company, etc. to whom a debtor owes money

ANSWERS: 33. emissions, 34. palm, 35. turbulence, 36. cafeteria, 37. efficiency, 38. replace, 39. variability, 40. creditor

41. Babies heavily _____ on others for food.

- v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

42. Enhanced rail _____ is crucial for our business.

- n.* a system for moving people or products from one location to another using automobiles, roads, and so on

43. The _____ scarcity most severely impacted the manufacturing sector

- n.* a substance that is typically burned to generate heat or energy

44. 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

45. The product developed through years of research continues to _____ the market.

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

46. The large corporation sought to _____ the market by buying out its competitors.

- v.* (business) to have complete control or dominance over a particular market or industry, often to the exclusion of other competitors

47. This trail takes _____ 2.5 hours.

- adv.* close to a specific number or time but not exactly that number or time

48. The products they sell are the _____ for performance in the industry.

- n.* a starting point or minimum for comparing facts; the back line bounding each end of a tennis or handball court

ANSWERS: 41. rely, 42. transportation, 43. fuel, 44. distance, 45. electrify, 46. monopolize, 47. approximately, 48. baseline

49. It was the _____ of a dinosaur tooth.

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

50. The production of _____ fuels requires massive volumes of fresh water.

adj. capable of being renewed, extended, or replaced

51. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.

adj. answerable or accountable for something within one's power, control, or management

ANSWERS: 49. fossil, 50. renewable, 51. responsible