



## Vocabulary Builder Reference from...

*Fred Jansen: How to land on a comet | TED Talk*

[https://www.ted.com/talks/fred\\_jansen\\_how\\_to\\_land\\_on\\_a\\_comet](https://www.ted.com/talks/fred_jansen_how_to_land_on_a_comet)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### comet

*n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun

*synonym* : meteor, asteroid, meteoroid

(1) the surface of the **comet**, (2) **comet** Halley

The **comet's** bright tail could be seen in the night sky.

### ignite

*v.* to set on fire; to cause to start burning

*synonym* : light, set fire to, ignite

(1) **ignite** a boom, (2) **ignite** passion

He **ignited** the fireworks with a single spark.

### asteroid

*n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

*synonym* : minor planet, planetoid, rocky planetesimal

(1) **asteroid** mining, (2) **asteroid** explorer

Scientists are studying the composition and origins of the **asteroid** belt to understand the early solar system better.

### bootstrap

*n.* a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance

*synonym* : boot, self-starting, load

(1) **bootstrap** method, (2) **bootstrap** framework

Many startups use **bootstrap** funding to get their businesses off the ground.

## Jovian

*adj.* relating to Jupiter or its characteristics

*synonym* : Jupiter, giant planet

(1) **Jovian** satellites, (2) **Jovian** planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

## 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.

## deflect

*v.* to cause something, especially a criticism or attack, to be directed away from someone

*synonym* : deter, redirect, sidetrack

(1) **deflect** a blow, (2) **deflect** his criticism

The soccer player was able to **deflect** the ball away from the goal.

## armada

*n.* a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things

*synonym* : fleet, flotilla, squadron

(1) naval **armada**, (2) **armada** ships

The Spanish **Armada** was a powerful fleet of ships that attempted to invade England in 1588.

## boulder

*n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion

*synonym* : rock, stone, clump

(1) **boulder** field, (2) lava **boulder**

The hikers had to climb over a **boulder** that was blocking their path.

## crater

*n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

*synonym* : cavity, hole, pit

(1) **crater** lake, (2) lunar **crater**

An enormous **crater** marks the area where the vast volcanic explosion occurred.

## heroic

*adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring

*synonym* : brave, courageous, daring

(1) a **heroic** poem, (2) **heroic** explorers

The **heroic** actions of individuals are now easily spread worldwide by SNS.

## isotope

*n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties

*synonym* : variant, nuclide, radioisotope

(1) radioactive **isotope**, (2) stable **isotope**

The **isotope** carbon-14 is commonly used in radiocarbon dating of fossils.

## outgas

*v.* to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds

*synonym* : evaporate, release, exhaust

(1) **outgas** odors, (2) **outgas** pollutants

High temperatures can cause certain plastics to **outgas** volatile compounds.

## flyby

*n.* a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit

*synonym*: passby, flyover, whizz by

(1) **flyby** mission, (2) a five-plane **flyby**

The spacecraft will conduct a **flyby** of the moon to gather data.

## slingshot

*n.* a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles

*synonym*: catapult, launcher, trebuchet

(1) **slingshot** projectile, (2) **slingshot** aim

The kids used a **slingshot** to launch small stones into the pond.

## hibernation

*n.* a state of inactivity and metabolic depression in animals during the winter

*synonym*: dormancy, torpor, sleep

(1) **hibernation** period, (2) artificial **hibernation**

Many animals go into **hibernation** during the winter to conserve energy and survive the harsh conditions.

## trajectory

*n.* the curved path followed by an object moving through space

*synonym*: course, curve, orbit

(1) career **trajectory**, (2) a **trajectory** missile

The company has shown an excellent growth **trajectory** over the years.

## elliptical

*adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself

*synonym*: oval, egg-shaped, oblong

(1) an **elliptical** motion, (2) an **elliptical** galaxies

The satellite's **elliptical** orbit made it appear to change its distance from earth.

## rendezvous

*n.* a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location

*synonym*: meeting, appointment, encounter

(1) romantic **rendezvous**, (2) business **rendezvous**

Our **rendezvous** point was the coffee shop on the corner.

## maneuver

*n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

*synonym*: gimmick, trick, action

(1) political **maneuvers**, (2) made a great **maneuver**

In this class, we learn the basic **maneuver** of the plane.

## selfie

*n.* a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media

*synonym*: self-portrait, self-photo, self-snap

(1) **selfie** stick, (2) pose for a **selfie**

She took a **selfie** in front of the famous tower and shared it on the app.

## propulsion

*n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

*synonym*: propelling, driving, actuation

(1) **propulsion** technology, (2) nuclear **propulsion**

The spacecraft's **propulsion** system helped it travel through space.

## unavoidable

*adj.* impossible to avoid or evade; inevitable

*synonym*: inevitable, inescapable, certain

(1) an **unavoidable** accident, (2) under **unavoidable** circumstances

There are now fears that war is **unavoidable**.

## clinometer

*n.* a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes

*synonym*: inclinometer, slope meter, tilt meter

(1) **clinometer** measurement, (2) digital **clinometer**

The surveyor took a **clinometer** reading to determine the exact angle of the hill's slope for the construction project.

## determinant

*n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

*synonym*: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

## centimeter

*n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

## sniff

*v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath

*synonym*: smell, inhale, scent

(1) **sniff** the air, (2) **sniff** the perfume

The dog stopped to **sniff** around the tree, looking for something interesting.

## magnetometer

*n.* a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields

*synonym*: magnetic field detector, fluxgate magnetometer

(1) **magnetometer** readings, (2) high-resolution

### **magnetometer**

The spacecraft **magnetometer** will help scientists study the magnetic fields of distant planets, offering insights into their composition and history.

### **evaporation**

*n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources

*synonym*: vaporization, dehydration, desiccation

(1) **evaporation** cooling, (2) slow **evaporation**

The formation of clouds is facilitated by the process of **evaporation** and condensation

### **rot**

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

*synonym*: perish, decay, corrode

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

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

### **confer**

*v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

*synonym*: consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

### **tantalum**

*n.* a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties

(1) **tantalum** capacitor, (2) **tantalum** alloy

The mining of **tantalum** in some regions has led to environmental degradation.

### **dun**

*adj.* having a dull brownish-gray color, often used to describe the color of certain animals, such as a dun horse; (verb) to repeatedly and insistently demand payment of a debt

or money owed

*synonym*: dark, gloomy, somber

(1) **dun** horse, (2) **dun** him for the unpaid bills

The spider was camouflaged on the **dun-colored** rock, waiting for its next prey.

## evaporate

*v.* to turn a liquid into a gas; to become less intense and disappear gradually

*synonym*: vaporize, disappear, vanish

(1) **evaporate** the water, (2) **evaporate** almost overnight

The sun will **evaporate** the mist.

## ax

*n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

*synonym*: hatchet, chopper, tomahawk

(1) chop wood with an **ax**, (2) an **ax** in the toolbox

He used an **ax** to chop the firewood for the campfire.

## human-made

*adj.* created or produced by humans; artificial

*synonym*: artificial, unnatural, manufactured

(1) **human-made** climate change, (2) the worst **human-made** disaster

The bridge is a **human-made** structure and was built to span the river.



## Session 2: Spelling

1. digital cli\_\_\_\_\_er  
*n.* a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes
2. a tra\_\_\_\_\_ry missile  
*n.* the curved path followed by an object moving through space
3. ta\_\_\_\_\_um alloy  
*n.* a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties
4. ar\_\_\_a ships  
*n.* a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things
5. naval ar\_\_\_a  
*n.* a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things
6. cli\_\_\_\_\_er measurement  
*n.* a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes

ANSWERS: 1. clinometer, 2. trajectory, 3. tantalum, 4. armada, 5. armada, 6. clinometer

7. gra\_\_\_\_\_nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
8. sl\_\_\_\_\_ot aim *n.* a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles
9. business ren\_\_\_\_\_us *n.* a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location
10. environmental det\_\_\_\_\_nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
11. bo\_\_\_\_\_ap method *n.* a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance
12. sl\_\_\_\_\_ot projectile *n.* a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles
13. begin to r\_t *v.* to decay, or cause something to decay, naturally and gradually
14. artificial hib\_\_\_\_\_on *n.* a state of inactivity and metabolic depression in animals during the winter
15. as\_\_\_\_\_id mining *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
16. pro\_\_\_\_\_on technology *n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

ANSWERS: 7. gravitational, 8. slingshot, 9. rendezvous, 10. determinant, 11. bootstrap, 12. slingshot, 13. rot, 14. hibernation, 15. asteroid, 16. propulsion

17. Jo\_\_\_n satellites *adj.* relating to Jupiter or its characteristics
18. gra\_\_\_\_\_nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
19. thirty cen\_\_\_\_\_ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
20. ou\_\_\_s pollutants *v.* to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds
21. cr\_\_\_r lake *n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
22. career tra\_\_\_\_\_ry *n.* the curved path followed by an object moving through space
23. sn\_\_f the air *v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
24. cen\_\_\_\_\_er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
25. fl\_\_y mission *n.* a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit

ANSWERS: 17. Jovian, 18. gravitational, 19. centimeter, 20. outgas, 21. crater, 22. trajectory, 23. sniff, 24. centimeter, 25. flyby

26. radioactive is\_\_\_\_e                      *n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
27. ev\_\_\_\_\_te the water                      *v.* to turn a liquid into a gas; to become less intense and disappear gradually
28. de\_\_\_\_\_t a blow                      *v.* to cause something, especially a criticism or attack, to be directed away from someone
29. r\_t with age                      *v.* to decay, or cause something to decay, naturally and gradually
30. co\_\_t Halley                      *n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun
31. pose for a se\_\_\_\_e                      *n.* a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media
32. bo\_\_\_\_\_ap framework                      *n.* a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance
33. ig\_\_\_\_e passion                      *v.* to set on fire; to cause to start burning
34. made a great ma\_\_\_\_\_er                      *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

ANSWERS: 26. isotope, 27. evaporate, 28. deflect, 29. rot, 30. comet, 31. selfie, 32. bootstrap, 33. ignite, 34. maneuver

35. ta\_\_\_\_um capacitor *n.* a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties
36. the surface of the co\_\_t *n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun
37. an ell\_\_\_\_\_al galaxies *adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself
38. political ma\_\_\_\_\_ers *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
39. sn\_\_f the perfume *v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
40. ou\_\_\_\_s odors *v.* to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds
41. as\_\_\_\_\_id explorer *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

ANSWERS: 35. tantalum, 36. comet, 37. elliptical, 38. maneuver, 39. sniff, 40. outgas, 41. asteroid

42. a det\_\_\_\_\_nt of crop yields      *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
43. a he\_\_\_c poem      *adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
44. mag\_\_\_\_\_ter readings      *n.* a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields
45. nuclear pro\_\_\_\_\_on      *n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
46. chop wood with an ax      *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
47. eva\_\_\_\_\_on cooling      *n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
48. bo\_\_\_\_\_r field      *n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion
49. se\_\_\_e stick      *n.* a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media

ANSWERS: 42. determinant, 43. heroic, 44. magnetometer, 45. propulsion, 46. ax, 47. evaporation, 48. boulder, 49. selfie

50. high-resolution mag\_\_\_\_\_ter *n.* a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields
51. hum\_\_\_\_\_de climate change *adj.* created or produced by humans; artificial
52. an ax in the toolbox *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
53. he\_\_\_c explorers *adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
54. lava bo\_\_\_\_\_r *n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion
55. the worst hum\_\_\_\_\_de disaster *adj.* created or produced by humans; artificial
56. an una\_\_\_\_\_le accident *adj.* impossible to avoid or evade; inevitable
57. d\_n him for the unpaid bills *adj.* having a dull brownish-gray color, often used to describe the color of certain animals, such as a dun horse; (verb) to repeatedly and insistently demand payment of a debt or money owed
58. hib\_\_\_\_\_on period *n.* a state of inactivity and metabolic depression in animals during the winter
59. co\_\_\_r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

ANSWERS: 50. magnetometer, 51. human-made, 52. ax, 53. heroic, 54. boulder, 55. human-made, 56. unavoidable, 57. dun, 58. hibernation, 59. confer

60. d\_n horse *adj.* having a dull brownish-gray color, often used to describe the color of certain animals, such as a dun horse; (verb) to repeatedly and insistently demand payment of a debt or money owed
61. under una\_\_\_\_\_le circumstances *adj.* impossible to avoid or evade; inevitable
62. Jo\_\_\_n planet *adj.* relating to Jupiter or its characteristics
63. an ell\_\_\_\_\_al motion *adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself
64. romantic ren\_\_\_\_\_us *n.* a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location
65. a five-plane fl\_\_y *n.* a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit
66. ev\_\_\_\_\_te almost overnight *v.* to turn a liquid into a gas; to become less intense and disappear gradually
67. de\_\_\_\_\_t his criticism *v.* to cause something, especially a criticism or attack, to be directed away from someone
68. stable is\_\_\_\_\_e *n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties

ANSWERS: 60. dun, 61. unavoidable, 62. Jovian, 63. elliptical, 64. rendezvous, 65. flyby, 66. evaporate, 67. deflect, 68. isotope



69. ig\_\_\_e a boom                      *v.*    to set on fire; to cause to start burning
70. co\_\_\_r honor                      *v.*    to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
71. lunar cr\_\_\_r                      *n.*    a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
72. slow eva\_\_\_\_\_on              *n.*    the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources

ANSWERS: 69. ignite, 70. confer, 71. crater, 72. evaporation

## Session 3: Fill in the Blanks

1. Many animals go into \_\_\_\_\_ during the winter to conserve energy and survive the harsh conditions.
  - n.* a state of inactivity and metabolic depression in animals during the winter
  
2. Please refrigerate the meat, or it will \_\_\_\_\_.
  - v.* to decay, or cause something to decay, naturally and gradually
  
3. The mining of \_\_\_\_\_ in some regions has led to environmental degradation.
  - n.* a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties
  
4. An enormous \_\_\_\_\_ marks the area where the vast volcanic explosion occurred.
  - n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
  
5. The bridge is a \_\_\_\_\_ structure and was built to span the river.
  - adj.* created or produced by humans; artificial
  
6. The spacecraft \_\_\_\_\_ will help scientists study the magnetic fields of distant planets, offering insights into their composition and history.
  - n.* a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields
  
7. Many startups use \_\_\_\_\_ funding to get their businesses off the ground.
  - n.* a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance

ANSWERS: 1. hibernation, 2. rot, 3. tantalum, 4. crater, 5. human-made, 6. magnetometer, 7. bootstrap

8. The spider was camouflaged on the \_\_\_\_\_ rock, waiting for its next prey.  
*adj.* having a dull brownish-gray color, often used to describe the color of certain animals, such as a dun horse; (verb) to repeatedly and insistently demand payment of a debt or money owed
9. He used an \_\_\_ to chop the firewood for the campfire.  
*n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
10. She took a \_\_\_\_\_ in front of the famous tower and shared it on the app.  
*n.* a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media
11. The spacecraft will conduct a \_\_\_\_\_ of the moon to gather data.  
*n.* a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit
12. The \_\_\_\_\_ moon Europa is believed to have an ocean beneath its icy surface.  
*adj.* relating to Jupiter or its characteristics
13. The spacecraft's \_\_\_\_\_ system helped it travel through space.  
*n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
14. The Spanish \_\_\_\_\_ was a powerful fleet of ships that attempted to invade England in 1588.  
*n.* a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things

ANSWERS: 8. dun-colored, 9. ax, 10. selfie, 11. flyby, 12. Jovian, 13. propulsion, 14. Armada

15. Our \_\_\_\_\_ point was the coffee shop on the corner.  
*n.* a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location
16. The satellite's \_\_\_\_\_ orbit made it appear to change its distance from earth.  
*adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself
17. The \_\_\_\_\_ carbon-14 is commonly used in radiocarbon dating of fossils.  
*n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
18. The leaders of the two countries met to \_\_\_\_\_ on the issue.  
*v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
19. The company has shown an excellent growth \_\_\_\_\_ over the years.  
*n.* the curved path followed by an object moving through space
20. There are now fears that war is \_\_\_\_\_.  
*adj.* impossible to avoid or evade; inevitable
21. He \_\_\_\_\_ the fireworks with a single spark.  
*v.* to set on fire; to cause to start burning
22. The \_\_\_\_\_ actions of individuals are now easily spread worldwide by SNS.  
*adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring

ANSWERS: 15. rendezvous, 16. elliptical, 17. isotope, 18. confer, 19. trajectory, 20. unavoidable, 21. ignited, 22. heroic

23. The soccer player was able to \_\_\_\_\_ the ball away from the goal.
- v.* to cause something, especially a criticism or attack, to be directed away from someone
24. 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)
25. The hikers had to climb over a \_\_\_\_\_ that was blocking their path.
- n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion
26. The surveyor took a \_\_\_\_\_ reading to determine the exact angle of the hill's slope for the construction project.
- n.* a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes
27. The formation of clouds is facilitated by the process of \_\_\_\_\_ and condensation
- n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
28. One \_\_\_\_\_ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
29. The \_\_\_\_\_ bright tail could be seen in the night sky.
- n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun

ANSWERS: 23. deflect, 24. gravitational, 25. boulder, 26. clinometer, 27. evaporation, 28. determinant, 29. comet's

30. Scientists are studying the composition and origins of the \_\_\_\_\_ belt to understand the early solar system better.
- n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
31. In this class, we learn the basic \_\_\_\_\_ of the plane.
- n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
32. The dog stopped to \_\_\_\_\_ around the tree, looking for something interesting.
- v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
33. High temperatures can cause certain plastics to \_\_\_\_\_ volatile compounds.
- v.* to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds
34. The sun will \_\_\_\_\_ the mist.
- v.* to turn a liquid into a gas; to become less intense and disappear gradually
35. The room was only one \_\_\_\_\_ wider than the piano, making it a tight fit.
- n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
36. The kids used a \_\_\_\_\_ to launch small stones into the pond.
- n.* a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles

ANSWERS: 30. asteroid, 31. maneuver, 32. sniff, 33. outgas, 34. evaporate, 35. centimeter, 36. slingshot