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Melodie Yashar: How to build for human life on Mars |
TED Talk

[https://www.ted.com/talks/melodie_yashar_how_to_b
uild_for_human_life_on_mars](https://www.ted.com/talks/melodie_yashar_how_to_build_for_human_life_on_mars)

Advanced Words Only

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Session 1: Word List

galactic

adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope

synonym: cosmic, celestial, enormous

(1) **galactic** scale, (2) a **galactic** system

The Milky Way is a **galactic** collection of billions of stars and planets.

prohibitively

adv. in a manner that discourages or prevents something from happening or being done, especially by making it too expensive

synonym: excessively

(1) **prohibitively** long time, (2) **prohibitively** difficult

The cost of the project was **prohibitively** high for the company to consider.

outpost

n. a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.

synonym: frontier, settlement

(1) **outpost** area, (2) military **outpost**

With the war's end, they have begun a gradual retreat from their **outposts**.

conceive

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

synonym: imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child

I can't **conceive** he'd want to harm us.

telerobotics

n. a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology

synonym: remote control, teleoperation, robot control

(1) **telerobotics** system, (2) **telerobotics** engineer

The military uses **telerobotics** for surveillance, reconnaissance, and bomb disposal operations.

situ

adj. short for "situated," meaning located or placed in a particular position or circumstance

synonym: situational, contextual, circumstantial

(1) ex- **situ** conservation, (2) in- **situ** control

Melanoma in **situ** is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.

regolith

n. the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids

synonym: moon dust, soil layer, surface layer

(1) **regolith** samples, (2) layer of **regolith**

The astronauts are studying the **regolith** on the Moon's surface.

airtight

adj. tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable

synonym: hermetic, watertight

(1) **airtight** container, (2) **airtight** seal

The container was **airtight**, keeping the food fresh for longer.

temperate

adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

synonym : moderate, mild, genial

(1) **temperate** grassland, (2) **temperate** behavior

The **temperate** climate of the region made it an ideal vacation spot.

choreograph

v. to compose a sequence of dance steps, often to music

(1) **choreograph** a stage performance, (2) exquisitely **choreographed**

He had **choreographed** the dance in this play himself.

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.

excavate

v. to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something

synonym : dig, unearth, extract

(1) **excavate** a deep hole, (2) **excavate** soil

The archaeologists **excavated** the ruins of an ancient city buried under the desert sands.

prebuilt

adj. constructed or assembled in advance of its use or installation

synonym : prefabricated, preconstructed, ready-made

(1) **prebuilt** homes, (2) **prebuilt** packages

The **prebuilt** computer was convenient for those who didn't want to build one from scratch.

airlock

n. a chamber between two areas that can be sealed against pressure, allowing the passage of people and

objects to go from one area to the other

(1) an **airlock** chamber, (2) **airlock** module

The mechanic has just inspected the jammed **airlock**.

posit

v. to suggest or accept something as fact or as a basis for argument or consideration

synonym: assert, declare, assume

(1) **posit** the existence of life after death, (2) **posit** the premise

We should **posit** several hypotheses to discuss the matter.

well-being

n. the state of being happy and healthy and prosperous

synonym: health, welfare, happiness

(1) the **well-being** of a nation, (2) a sense of **well-being**

We are responsible for the care and **well-being** of all our employees.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym: spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

greenery

n. plant life, especially lush and flourishing vegetation

synonym: vegetation, plants, foliage

(1) the **greenery** in a courtyard, (2) **greenery** environment

The city plans to add more **greenery** in public spaces to improve air quality and aesthetic.

inflate

v. to fill something with air or gas so that it becomes bigger and rounder

synonym: blow up, expand, puff up

(1) **inflate** a tire, (2) **inflate** expense reports

She **inflated** the balloons for the party.

lava

n. molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material

synonym : molten rock, magma, volcanic rock

(1) **lava** flow, (2) molten **lava**

The volcano's eruption caused a **lava** river to flow down the mountainside.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym : robust, sturdy, tough

(1) a hard and **resilient** steel, (2) **resilient** population

She is a **resilient** person and has always bounced back from setbacks.

testbed

n. a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation

synonym : experiment platform, workbench, trial ground

(1) **testbed** environment, (2) robotics **testbed**

The lab has a **testbed** for experimenting with new technologies.

roadway

n. the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders

synonym : highway, street, thoroughfare

(1) busy **roadway**, (2) **roadway** asphalt

Cyclists are not allowed on the highway **roadway** for safety reasons.

lunar

adj. of or pertaining to the moon

synonym : moony

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

Ancient people felt mystified by the patterns on the **lunar** surface.

refuel

v. to put additional fuel into a plane, ship, car, etc.

(1) **refuel** air-to-air, (2) **refuel** bombers in flight

Our plane stopped in the country to **refuel**.

resupply

v. to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations

synonym: restock, replenish, refill

(1) **resupply** food, (2) **resupply** water

We need to **resupply** our inventory before the holiday rush.

aeroponic

adj. relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients

synonym: aerospace, hydroponic, mist

(1) **aeroponic** vegetable, (2) **aeroponic** garden

An **aeroponic** system uses mist to grow plants.

rethink

v. to consider again a plan, idea, etc., especially to change it

synonym: reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

redound

v. to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive

synonym: contribute, result, benefit

(1) **redound** to the team's victory, (2) **redound** to our advantage

His dedication to his work **redounds** to his success.

reimagine

v. to imagine or conceive of something in a new or different way

synonym: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities

The company is trying to **reimagine** its business model to stay competitive.

lifeboat

n. a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning

synonym: rescue boat, safety boat, emergency vessel

(1) launch **lifeboat**, (2) coastal **lifeboat** station

The passengers were evacuated from the sinking ship and boarded the **lifeboat**.

ailment

n. a slight but often persistent illness

synonym: illness, disorder, infection

(1) heart **ailment**, (2) age-related **ailment**

He got timely treatment for his physical **ailment** of severe back pain.

cusp

n. a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved

synonym: point, apex, tip

(1) **cusp** of change, (2) a single **cusp**

The project was on the **cusp** of success and needed a little more funding.

Session 2: Spelling

- | | |
|-----------------------------------|---|
| 1. as_____ut mission | <i>n.</i> a person trained by a space agency to travel outside the Earth's atmosphere |
| 2. cho_____ph a stage performance | <i>v.</i> to compose a sequence of dance steps, often to music |
| 3. busy ro_____y | <i>n.</i> the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders |
| 4. ae_____ic vegetable | <i>adj.</i> relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients |
| 5. in-s__u control | <i>adj.</i> short for "situated," meaning located or placed in a particular position or circumstance |
| 6. ex_____te soil | <i>v.</i> to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something |
| 7. l__a flow | <i>n.</i> molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material |
| 8. a hard and re_____nt steel | <i>adj.</i> able to withstand or recover quickly from difficult conditions |
| 9. tel_____ics engineer | <i>n.</i> a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology |

ANSWERS: 1. astronaut, 2. choreograph, 3. roadway, 4. aeroponic, 5. situ, 6. excavate, 7. lava, 8. resilient, 9. telerobotics

- | | |
|---------------------------------|---|
| 10. a ga____ic system | <i>adj.</i> relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope |
| 11. ai____ht seal | <i>adj.</i> tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable |
| 12. the gr____ry in a courtyard | <i>n.</i> plant life, especially lush and flourishing vegetation |
| 13. te____d environment | <i>n.</i> a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation |
| 14. re____nt population | <i>adj.</i> able to withstand or recover quickly from difficult conditions |
| 15. te____te grassland | <i>adj.</i> mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude |
| 16. ga____ic scale | <i>adj.</i> relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope |
| 17. re____k a marketing plan | <i>v.</i> to consider again a plan, idea, etc., especially to change it |
| 18. pro____ely difficult | <i>adv.</i> in a manner that discourages or prevents something from happening or being done, especially by making it too expensive |

ANSWERS: 10. galactic, 11. airtight, 12. greenery, 13. testbed, 14. resilient, 15. temperate, 16. galactic, 17. rethink, 18. prohibitively

- | | |
|---|---|
| 19. ai____k module | <i>n.</i> a chamber between two areas that can be sealed against pressure, allowing the passage of people and objects to go from one area to the other |
| 20. co____ve of an idea | <i>v.</i> to have or develop an idea, a plan, etc. in mind; to become pregnant |
| 21. po__t the existence of life after death | <i>v.</i> to suggest or accept something as fact or as a basis for argument or consideration |
| 22. ex____te a deep hole | <i>v.</i> to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something |
| 23. re____ly food | <i>v.</i> to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations |
| 24. heart ai____t | <i>n.</i> a slight but often persistent illness |
| 25. pr____lt homes | <i>adj.</i> constructed or assembled in advance of its use or installation |
| 26. po__t the premise | <i>v.</i> to suggest or accept something as fact or as a basis for argument or consideration |
| 27. tel____ics system | <i>n.</i> a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology |
| 28. pro____ely long time | <i>adv.</i> in a manner that discourages or prevents something from happening or being done, especially by making it too expensive |

ANSWERS: 19. airlock, 20. conceive, 21. posit, 22. excavate, 23. resupply, 24. ailment, 25. prebuilt, 26. posit, 27. telerobotics, 28. prohibitively

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|-----------------------------------|---|
| 29. re____d to the team's victory | <i>v.</i> to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive |
| 30. re_____ne the possibilities | <i>v.</i> to imagine or conceive of something in a new or different way |
| 31. exquisitely cho_____phed | <i>v.</i> to compose a sequence of dance steps, often to music |
| 32. ai_____ht container | <i>adj.</i> tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable |
| 33. a single c__p | <i>n.</i> a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved |
| 34. launch li_____at | <i>n.</i> a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning |
| 35. an ai_____k chamber | <i>n.</i> a chamber between two areas that can be sealed against pressure, allowing the passage of people and objects to go from one area to the other |
| 36. re_____ly water | <i>v.</i> to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations |
| 37. molten l__a | <i>n.</i> molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material |

ANSWERS: 29. redound, 30. reimagine, 31. choreograph, 32. airtight, 33. cusp, 34. lifeboat, 35. airlock, 36. resupply, 37. lava

38. in_____e a tire	<i>v.</i> to fill something with air or gas so that it becomes bigger and rounder
39. military ou_____t	<i>n.</i> a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.
40. ae_____ic garden	<i>adj.</i> relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients
41. pr_____lt packages	<i>adj.</i> constructed or assembled in advance of its use or installation
42. ro_____y asphalt	<i>n.</i> the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders
43. re_____ne the future	<i>v.</i> to imagine or conceive of something in a new or different way
44. in_____e expense reports	<i>v.</i> to fill something with air or gas so that it becomes bigger and rounder
45. re____l air-to-air	<i>v.</i> to put additional fuel into a plane, ship, car, etc.
46. as_____ut in training	<i>n.</i> a person trained by a space agency to travel outside the Earth's atmosphere
47. re_____th samples	<i>n.</i> the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids
48. te_____te behavior	<i>adj.</i> mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

ANSWERS: 38. inflate, 39. outpost, 40. aeroponic, 41. prebuilt, 42. roadway, 43. reimagine, 44. inflate, 45. refuel, 46. astronaut, 47. regolith, 48. temperate

49. ex-s__u conservation	<i>adj.</i> short for "situated," meaning located or placed in a particular position or circumstance
50. re____k the role of the manager	<i>v.</i> to consider again a plan, idea, etc., especially to change it
51. the wel_____ng of a nation	<i>n.</i> the state of being happy and healthy and prosperous
52. made a great ma_____er	<i>n.</i> a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
53. ou_____t area	<i>n.</i> a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.
54. a sense of wel_____ng	<i>n.</i> the state of being happy and healthy and prosperous
55. re___l bombers in flight	<i>v.</i> to put additional fuel into a plane, ship, car, etc.
56. robotics te_____d	<i>n.</i> a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation
57. lu__r crater	<i>adj.</i> of or pertaining to the moon
58. coastal li_____at station	<i>n.</i> a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning
59. co_____ve a child	<i>v.</i> to have or develop an idea, a plan, etc. in mind; to become pregnant

ANSWERS: 49. situ, 50. rethink, 51. well-being, 52. maneuver, 53. outpost, 54. well-being, 55. refuel, 56. testbed, 57. lunar, 58. lifeboat, 59. conceive

- | | |
|------------------------------|---|
| 60. gr____ry environment | <i>n.</i> plant life, especially lush and flourishing vegetation |
| 61. political ma____ers | <i>n.</i> a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage |
| 62. layer of re____th | <i>n.</i> the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids |
| 63. lu__r surface | <i>adj.</i> of or pertaining to the moon |
| 64. c__p of change | <i>n.</i> a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved |
| 65. age-related ai____t | <i>n.</i> a slight but often persistent illness |
| 66. re____d to our advantage | <i>v.</i> to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive |

ANSWERS: 60. greenery, 61. maneuver, 62. regolith, 63. lunar, 64. cusp, 65. ailment, 66. rebound

Session 3: Fill in the Blanks

1. The military uses _____ for surveillance, reconnaissance, and bomb disposal operations.
n. a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology
2. Melanoma in _____ is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.
adj. short for "situated," meaning located or placed in a particular position or circumstance
3. The passengers were evacuated from the sinking ship and boarded the _____.
n. a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning
4. I can't _____ he'd want to harm us.
v. to have or develop an idea, a plan, etc. in mind; to become pregnant
5. Ancient people felt mystified by the patterns on the _____ surface.
adj. of or pertaining to the moon
6. The Milky Way is a _____ collection of billions of stars and planets.
adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
7. With the war's end, they have begun a gradual retreat from their _____.
n. a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.

ANSWERS: 1. telerobotics, 2. situ, 3. lifeboat, 4. conceive, 5. lunar, 6. galactic, 7. outposts

8. Cyclists are not allowed on the highway _____ for safety reasons.
n. the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders
9. He had _____ the dance in this play himself.
v. to compose a sequence of dance steps, often to music
10. We have to _____ our company's product lineup for further growth.
v. to consider again a plan, idea, etc., especially to change it
11. 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
12. We are responsible for the care and _____ of all our employees.
n. the state of being happy and healthy and prosperous
13. The _____ climate of the region made it an ideal vacation spot.
adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude
14. The cost of the project was _____ high for the company to consider.
adv. in a manner that discourages or prevents something from happening or being done, especially by making it too expensive
15. The _____ computer was convenient for those who didn't want to build one from scratch.
adj. constructed or assembled in advance of its use or installation

ANSWERS: 8. roadway, 9. choreographed, 10. rethink, 11. maneuver, 12. well-being, 13. temperate, 14. prohibitively, 15. prebuilt

16. He got timely treatment for his physical _____ of severe back pain.
n. a slight but often persistent illness
17. Our plane stopped in the country to _____.
v. to put additional fuel into a plane, ship, car, etc.
18. The astronauts are studying the _____ on the Moon's surface.
n. the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids
19. We need to _____ our inventory before the holiday rush.
v. to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations
20. The company is trying to _____ its business model to stay competitive.
v. to imagine or conceive of something in a new or different way
21. She is a _____ person and has always bounced back from setbacks.
adj. able to withstand or recover quickly from difficult conditions
22. The container was _____ keeping the food fresh for longer.
adj. tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable
23. The city plans to add more _____ in public spaces to improve air quality and aesthetic.
n. plant life, especially lush and flourishing vegetation

ANSWERS: 16. ailment, 17. refuel, 18. regolith, 19. resupply, 20. reimagine, 21. resilient, 22. airtight, 23. greenery

24. She _____ the balloons for the party.

- v.* to fill something with air or gas so that it becomes bigger and rounder

25. The mechanic has just inspected the jammed _____.

- n.* a chamber between two areas that can be sealed against pressure, allowing the passage of people and objects to go from one area to the other

26. The project was on the _____ of success and needed a little more funding.

- n.* a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved

27. The lab has a _____ for experimenting with new technologies.

- n.* a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation

28. The shuttle _____ trained for months before embarking on the space mission.

- n.* a person trained by a space agency to travel outside the Earth's atmosphere

29. The archaeologists _____ the ruins of an ancient city buried under the desert sands.

- v.* to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something

30. We should _____ several hypotheses to discuss the matter.

- v.* to suggest or accept something as fact or as a basis for argument or consideration

31. An _____ system uses mist to grow plants.

- adj.* relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients

ANSWERS: 24. inflated, 25. airlock, 26. cusp, 27. testbed, 28. astronaut, 29. excavated, 30. posit, 31. aeroponic

32. His dedication to his work _____ to his success.

- v.* to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive

33. The volcano's eruption caused a _____ river to flow down the mountainside.

- n.* molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material

ANSWERS: 32. redounds, 33. lava