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Vocabulary Builder Reference from...

Thomas Boothby: Meet the tardigrade, the toughest animal on Earth | TED Talk https://www.ted.com/talks/thomas_boothby_meet_the _tardigrade_the_toughest_animal_on_earth



Advanced Words Only

IMPORTANT

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Session 1: Word List

resilient	<i>adj.</i> able to withstand or recover quickly from difficult conditions<i>synonym</i>: robust, sturdy, tough				
	(1) a hard and resilient steel, (2) resilient population				
	She is a resilient person and has always bounced back from setbacks.				
tardigrade	 n. a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions synonym: water bear, moss piglet 				
	(1) tiny tardigrade, (2) tardigrade research				
	Scientists have studied the resilience of the tardigrade, also				
	known as a water bear.				
biochemical	 adj. relating to the chemical processes and substances that occur within living organisms synonym: molecular, biological 				
	(1) biochemical reaction, (2) complex biochemical				
	Biochemical research is essential to understanding the				
	complex chemical reactions in living organisms.				
anhydrobiosis	<i>n.</i> a state of suspended animation or extreme desiccation in certain organisms where they can withstand				

prolonged periods of extreme dryness, appearing dead, and then revive when provided with water

(1) anhydrobiosis organism, (2) anhydrobiosis in plantsSome bacteria, yeast, and plants can enter a state ofanhydrobiosis to endure harsh conditions.

archaea	 <i>n</i>. a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats <i>synonym</i>: microbe, microorganism
	(1) archaea microorganism, (2) thermophile archaea
	The study of archaea is important for understanding the origins of life on Earth
synthesize	 v. to combine a substance to make a more complex product or compound synonym: incorporate, amalgamate
	(1) synthesize molecules, (2) synthesize information
	The spider can synthesize multiple different silk proteins.
unfold	 v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown synonym: open, spread out, expose
	(1) unfold the story, (2) unfold the stroller
	The mystery unfolded as the detectives gathered more clues.
fuse	 n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat synonym: (verb) melt, (verb) blend
	(1) fuse blows, (2) fuse with one another
	He has a short fuse .

hydrate	 v. to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization synonym: moisturize, water, rehydrate 			
	(1) hydrate my skin, (2) acid hydrate			
	She drank water to hydrate her body.			
dissolve	 v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss synonym: disband, disappear, liquefy 			
	(1) dissolve the sugar, (2) officially dissolved the marriage			
	The political party dissolved after much internal fighting.			
speculate	 v. to form a theory or conjecture or guess about a subject without solid evidence 			
	synonym: assume, conjecture, infer			
	(1) speculate about the reason, (2) speculate on the outcome			
	He speculated that this investment would lead to success.			
extraterrestrial	 adj. relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth synonym: alien, outer, otherworldly 			
	(1) extraterrestrial planet, (2) extraterrestrial intelligence			
	Scientists are constantly searching for signs of			
	extraterrestrial life in the universe.			
hardy	 adj. able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient synonym: tough, sturdy, resilient 			
	(1) hardy plants, (2) hardy breed			
	The hardy construction workers worked tirelessly in the			
	scorching heat to complete the project.			
biome	<i>n.</i> a major ecological community characterized by particular plant and animal species adapted to a specific			

	climate and geographic region, such as desert, tundra, or rainforest synonym: ecosystem, habitat, biota			
	(1) biome conservation, (2) marine biome			
	The rainforest is one of the most diverse biomes on the planet.			
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.			
moss	 n. a small, soft plant that grows in a low, compact layer, often on the ground or on rocks synonym: plant, foliage, greenery 			
	(1) green moss , (2) moss garden			
	Moss grows in damp, shaded areas and is often found on the forest floor.			
lichen	 n. a composite organism consisting of a symbiotic relationship between a fungus and an alga or cyanobacterium synonym: fungus, plant, symbiotic organism 			
	(1) lichen fungus, (2) lichen families			
	The lichen on the old tree bark was thick and lush, a sign of a healthy ecosystem.			
stabilize	 v. to become or cause to become steady or unlikely to give way 			
	synonym: brace, steady, secure			
	(1) stabilize prices, (2) stabilize blood sugar levels			
	The raising of interest rates stabilizes the inflation rate.			
prolong	 v. to extend the duration or length of something, particularly a period of time or an event synonym: 			

extend, lengthen, stretch

(1) **prolong** the agony, (2) measures to **prolong** the lifespan

We need to **prolong** the meeting for another hour to discuss all the issues.

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

hospitableadj. friendly and generous to visitors or guestssynonym: benevolent, generous, gracious

(1) hospitable environment, (2) a hospitable welcomeHe is a good-natured and hospitable man.

Session 2: Spelling

1.	spte about the reason	ν.	to form a theory or conjecture or guess about a subject without solid evidence
2.	anhsis organism	n.	a state of suspended animation or extreme desiccation in certain organisms where they can withstand prolonged periods of extreme dryness, appearing dead, and then revive when provided with water
3.	ara microorganism	n.	a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
4.	synze molecules	ν.	to combine a substance to make a more complex product or compound
5.	thermophile ara	n.	a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
6.	prg the agony	v.	to extend the duration or length of something, particularly a period of time or an event
7.	hye my skin	v.	to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization

ANSWERS: 1. speculate, 2. anhydrobiosis, 3. archaea, 4. synthesize, 5. archaea, 6. prolong, 7. hydrate

8.	hosle environment	adj.	friendly and generous to visitors or guests
9.	rent population	adj.	able to withstand or recover quickly from difficult conditions
10.	und the story	v.	to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
11. ⁻	fe with one another	n.	a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
12.	extial planet	adj.	relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth
13.	bioal reaction	adj.	relating to the chemical processes and substances that occur within living organisms
14.	green ms	n.	a small, soft plant that grows in a low, compact layer, often on the ground or on rocks
15.	extial intelligence	adj.	relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth
16.	asut in training	n.	a person trained by a space agency to travel outside the Earth's atmosphere

ANSWERS: 8. hospitable, 9. resilient, 10. unfold, 11. fuse, 12. extraterrestrial, 13. biochemical, 14. moss, 15. extraterrestrial, 16. astronaut

17. synze information	<i>v</i> .	to combine a substance to make a more complex product or compound
18. tropical raist	n.	a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
19. fe blows	n.	a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
20. und the stroller	v.	to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
21. spte on the outcome	v.	to form a theory or conjecture or guess about a subject without solid evidence
22. a hard and rent steel	adj.	able to withstand or recover quickly from difficult conditions
23. complex bioal	adj.	relating to the chemical processes and substances that occur within living organisms
24. hay plants	adj.	able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
25. marine bie	n.	a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest

ANSWERS: 17. synthesize, 18. rainforest, 19. fuse, 20. unfold, 21. speculate, 22. resilient, 23. biochemical, 24. hardy, 25. biome

26. tarde research	n.	a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
27. stze prices	v.	to become or cause to become steady or unlikely to give way
28. asut mission	n.	a person trained by a space agency to travel outside the Earth's atmosphere
29. anhsis in plants	n.	a state of suspended animation or extreme desiccation in certain organisms where they can withstand prolonged periods of extreme dryness, appearing dead, and then revive when provided with water
30. tiny tarde	n.	a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
31. lin families	n.	a composite organism consisting of a symbiotic relationship between a fungus and an alga or cyanobacterium
32. dive the sugar	v.	to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
33. hay breed	adj.	able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
34. raist destruction	n.	a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
35. acid hye	v.	to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization

ANSWERS: 26. tardigrade, 27. stabilize, 28. astronaut, 29. anhydrobiosis, 30. tardigrade, 31. lichen, 32. dissolve, 33. hardy, 34. rainforest, 35. hydrate

36.	lin fungus	n.	a composite organism consisting of a symbiotic relationship between a fungus and an alga or cyanobacterium
37.	a hosle welcome	adj.	friendly and generous to visitors or guests
38.	ms garden	n.	a small, soft plant that grows in a low, compact layer, often on the ground or on rocks
39.	stze blood sugar levels	v.	to become or cause to become steady or unlikely to give way
40.	officially dived the marriage	v.	to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
41.	bie conservation	n.	a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
42.	measures to prg the lifespan	v.	to extend the duration or length of something, particularly a period of time or an event

ANSWERS: 36. lichen, 37. hospitable, 38. moss, 39. stabilize, 40. dissolve, 41. biome, 42. prolong

Session 3: Fill in the Blanks

- 1. 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
- 2. The mystery ______ as the detectives gathered more clues.
- *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
- 3. _____ research is essential to understanding the complex chemical reactions in living organisms.
- *adj.* relating to the chemical processes and substances that occur within living organisms
- 4. He ______ that this investment would lead to success.
- *v.* to form a theory or conjecture or guess about a subject without solid evidence
- 5. The _____ construction workers worked tirelessly in the scorching heat to complete the project.
- *adj.* able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
- 6. He is a good-natured and _____ man.
- adj. friendly and generous to visitors or guests
- 7. She drank water to _____ her body.
- *v.* to add water or moisture to something; to drink enough fluids to maintain proper moisture; (noun) any compound that contains water of crystallization

ANSWERS: 1. astronaut, 2. unfolded, 3. Biochemical, 4. speculated, 5. hardy, 6. hospitable, 7. hydrate

- 8. She is a ______ person and has always bounced back from setbacks.
 - adj. able to withstand or recover quickly from difficult conditions
- 9. The rainforest is one of the most diverse _____ on the planet.
- *n*. a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
- 10. The spider can _____ multiple different silk proteins.
- *v.* to combine a substance to make a more complex product or compound
- 11. _____ grows in damp, shaded areas and is often found on the forest floor.
- *n*. a small, soft plant that grows in a low, compact layer, often on the ground or on rocks
- 12. The study of ______ is important for understanding the origins of life on Earth
 - *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
- 13. He has a short _____.
- *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
- 14. We need to ______ the meeting for another hour to discuss all the issues.
- *v.* to extend the duration or length of something, particularly a period of time or an event
- 15. 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

ANSWERS: 8. resilient, 9. biomes, 10. synthesize, 11. Moss, 12. archaea, 13. fuse, 14. prolong, 15. rainforest

- 16. Scientists are constantly searching for signs of ______ life in the universe.
- *adj.* relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth
- 17. The political party ______ after much internal fighting.
- *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
- 18. The raising of interest rates ______ the inflation rate.
- *v*. to become or cause to become steady or unlikely to give way
- 19. Some bacteria, yeast, and plants can enter a state of ______ to endure harsh conditions.
- *n.* a state of suspended animation or extreme desiccation in certain organisms where they can withstand prolonged periods of extreme dryness, appearing dead, and then revive when provided with water
- 20. Scientists have studied the resilience of the ______ also known as a water bear.
- *n*. a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
- 21. The ______ on the old tree bark was thick and lush, a sign of a healthy ecosystem.
- *n.* a composite organism consisting of a symbiotic relationship between a fungus and an alga or cyanobacterium

ANSWERS: 16. extraterrestrial, 17. dissolved, 18. stabilizes, 19. anhydrobiosis, 20. tardigrade, 21. lichen