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Vocabulary Builder Reference from...

Harry Cliff: Have we reached the end of physics? | TED Talk https://www.ted.com/talks/harry_cliff_have_we_reach ed_the_end_of_physics



Advanced Words Only

IMPORTANT

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Session 1: Word List

unquestionably	 adv. without a doubt; certainly synonym: certainly, undoubtedly, without doubt (1) unquestionably bad, (2) unquestionably safe Unquestionably, he was the best candidate for the job.
physicist	 <i>n</i>. a scientist who specializes in the field of physics (1) talented physicist, (2) theoretical physicist Einstein was an outstanding and famous physicist of the 20th century.
forbid	 v. to order somebody not to do something, especially officially; to keep something from happening or arising <i>synonym</i>: prohibit, ban, outlaw (1) forbid smoking in public areas, (2) forbid the use of chemical weapons God forbid you should regret your marriage.
lifeless	 <i>adj.</i> without life; dead <i>synonym</i>: inanimate, inert, motionless (1) fall lifeless, (2) a lifeless corpse The plant had a lifeless appearance, indicating that it was not getting enough water.

squirrel	 n. a small to medium-sized rodent with a bushy tail, found in almost every part of the world synonym: rodent, chipmunk, tree-dweller
	(1) agile squirrel , (2) gray squirrel
	The squirrels in the park were very friendly and came right
	up to us looking for food.
numb	adj. unable to feel physical sensation and movement; not showing human feeling or sensitivity
	synonym: dazed, insensitive, emotionless
	(1) numb with cold, (2) a numb mind
	My left arm became numb .
collide	v. to hit something violently when movingsynonym: clash, slam, contradict
	(1) collide head-on, (2) collide in midair
	The interests of the two countries collide .
whiz	 v. to move or run quickly and smoothly with a hissing or buzzing sound; to excel or perform skillfully in a particular area; to urinate; (noun) a person who is very clever or skilled at something synonym: zoom, zip, hurry
	(1) whiz kid, (2) whiz through the book
	The racing car whizzed past the grandstands, leaving a trail of dust behind it.
smashing	 adj. very successful or impressive; causing something to be broken or destroyed synonym: great, wonderful, breaking
	(1) a smashing blow, (2) give smashing results
	The band's new album was a smashing success, reaching
	the top of the charts.
boson	n. a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave

	synonym: photon, gluon, particle
	(1) weak boson , (2) Higgs boson
	The search for new boson particles is one of the most exciting areas of modern physics.
excite	v. to make someone feel suddenly enthusiastic or eager synonym: thrill, exhilarate, animate
	(1) excite the crowd, (2) excite rebellion
	The news of her promotion excited her.
theorist	 <i>n</i>. a person who develops or formulates theories about a particular subject, especially in the sciences or social sciences; someone who engages in theoretical thinking or speculation <i>synonym</i>: philosopher, academic, scholar
	(1) scientific theorist, (2) conspiracy theorist
	The feminist theorist criticized traditional models of gender
	roles and argued for greater equality between the sexes.
fine-tuning	<i>n.</i> the act of making small adjustments or changes to improve or optimize the performance, quality, or effectiveness of something
	synonym: adjustment, calibration, tweaking
	(1) fine-tuning process, (2) fine-tuning of a financial plan
	The fine-tuning of the car engine made it run more smoothly.
astronomer	n. a physicist who studies astronomy
	synonym: stargazer, cosmologist, astrophysicist
	(1) amateur astronomer, (2) solar astronomer
	This question has fascinated solar astronomers for decades.
repulsive	<i>adj.</i> causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
	synonym: disgusting, revolting, repugnant
	(1) repulsive smell, (2) repulsive act
	The politician's rhetoric was so repulsive that many people

refused to vote for him.

astonishing	adj. surprising or shocking; difficult to believe synonym: surprising, shocking, astounding
	(1) astonishing achievement, (2) make astonishing gains The news of her sudden death was astonishing to everyone who knew her.
mind-boggling	 adj. extremely surprising or overwhelming and, therefore, difficult to understand or imagine synonym: overwhelming, amazing, astonishing
	(1) a mind-boggling puzzle, (2) a mind-boggling display Educating hundreds of thousands of recruits is a mind-boggling task.
astronomical	 adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude synonym: huge, vast, enormous
	(1) astronomical observation, (2) astronomical numbers The cost of the new equipment was astronomical and beyond the company's budget.
futile	<i>adj.</i> incapable of producing any useful result; pointless <i>synonym</i> : useless, worthless, ineffective
	 (1) futile talk, (2) make a futile protest It was futile to try and fix the broken vase, as it was too badly damaged.
unify	 v. to bring or join something together so that they form a single unit synonym: bring together, consolidate, merge
	 unify the system, (2) unify the party The people believe that they can unify the country.

vibrate	 v. to move or cause anything to move fast and in small increments from side to side
	synonym: oscillate, convulse, jerk
	(1) vibrate at a regular frequency, (2) vibrate with anger
	During the flight, the wings of the plane vibrate .
poetic	 adj. of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way synonym: literary, verse-like, rhythmic
	(1) poetic genius, (2) poetic justice
	The sunset was so beautiful it looked like a poetic scene from a movie.
catastrophic	<i>adj.</i> extremely harmful; causing physical or financial destruction
	synonym: fatal, disastrous, destructive
	(1) victim of catastrophic injuries, (2) catastrophic climate change
	The extinction rate of aquatic animals was catastrophic.
disprove	<i>v.</i> to show that something is not true or correct <i>synonym</i> : refute, discredit, invalidate
	(1) disprove global warming, (2) disprove the conjecture
	The researchers were unable to disprove the theory.
multiverse	<i>n.</i> a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
	(1) the multiverse hypothesis, (2) the concept of the multiverse
	The various universes within the multiverse are sometimes
	called parallel universes.
barren	<i>adj.</i> unable to produce or sustain growth; lacking fertility; unproductive; lacking interest, excitement, or creativity; empty or desolate
	synonym: sterile, infertile, unproductive

	(1) barron wastaland (2) barron depart
	(1) barren wasteland, (2) barren desert
	The desert is known for its barren terrain with no sign of
	vegetation.
populate	 v. to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information synonym: inhabit, occupy, dwell
	(1) populate the countryside, (2) populate the spreadsheet
	Deer, squirrels, and birds primarily populate the forest.
glum	<i>adj.</i> looking or feeling dejected; characterized by a gloomy or depressed mood
	synonym: dismal, melancholy, dreary
	(1) glum expression, (2) glum mood
	She looked glum after receiving the disappointing news.
earnest	<i>adj.</i> characterized by sincere and severe conviction or effort; showing a deep and a genuine sense of purpose or commitment
	synonym: sincere, serious, genuine
	(1) earnest attempt, (2) earnest conversation
	He spoke in an earnest tone, expressing his genuine
	concern for the safety of everyone involved.
ingenuity	 n. the quality of inventing things or solving problems in clever new ways
	synonym: creativity, invention, originality
	(1) the infinite ingenuity of man, (2) abound in ingenuity
	Creativity and ingenuity are often brought about by extreme concentration.
mobilize	 v. to make something ready for action or use; to organize people or resources for a particular purpose synonym: activate, rally, marshal
	(1) mobilize cooperation, (2) mobilize a stiff joint

The military **mobilized** troops to the border.

Session 2: Spelling

1.	a nb mind	adj.	unable to feel physical sensation and movement; not showing human feeling or sensitivity
2.	cathic climate change	adj.	extremely harmful; causing physical or financial destruction
3.	the concept of the mulse	n.	a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
4.	abound in inty	n.	the quality of inventing things or solving problems in clever new ways
5.	agile sqel	n.	a small to medium-sized rodent with a bushy tail, found in almost every part of the world
6.	Higgs bon	n.	a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave
7.	eat attempt	adj.	characterized by sincere and severe conviction or effort; showing a deep and a genuine sense of purpose or commitment
8.	astcal numbers	adj.	relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
9.	poc justice	adj.	of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way

ANSWERS: 1. numb, 2. catastrophic, 3. multiverse, 4. ingenuity, 5. squirrel, 6. boson, 7. earnest, 8. astronomical, 9. poetic

10. wz through the book	v.	to move or run quickly and smoothly with a hissing or buzzing sound; to excel or perform skillfully in a particular area; to urinate; (noun) a person who is very clever or skilled at something
11. the infinite inty of man	n.	the quality of inventing things or solving problems in clever new ways
12. coe head-on	<i>v</i> .	to hit something violently when moving
13. uny the party	v.	to bring or join something together so that they form a single unit
14. make astng gains	adj.	surprising or shocking; difficult to believe
15. unqbly safe	adv	without a doubt; certainly
16. reve act	adj.	causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
17. eat conversation	adj.	characterized by sincere and severe conviction or effort; showing a deep and a genuine sense of purpose or commitment
18. scientific thst	n.	a person who develops or formulates theories about a particular subject, especially in the sciences or social sciences; someone who engages in theoretical thinking or speculation
19. fue talk	adj.	incapable of producing any useful result; pointless

ANSWERS: 10. whiz, 11. ingenuity, 12. collide, 13. unify, 14. astonishing, 15. unquestionably, 16. repulsive, 17. earnest, 18. theorist, 19. futile

20.	weak bon	n.	a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave
21.	poc genius	adj.	of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way
22.	moze cooperation	v.	to make something ready for action or use; to organize people or resources for a particular purpose
23.	fall liss	adj.	without life; dead
24.	dive the conjecture	v.	to show that something is not true or correct
25.	ban wasteland	adj.	unable to produce or sustain growth; lacking fertility; unproductive; lacking interest, excitement, or creativity; empty or desolate
26.	a liss corpse	adj.	without life; dead
27.	give smng results	adj.	very successful or impressive; causing something to be broken or destroyed
28.	theoretical phst	n.	a scientist who specializes in the field of physics
29.	astng achievement	adj.	surprising or shocking; difficult to believe
30.	a smng blow	adj.	very successful or impressive; causing something to be broken or destroyed
31.	reve smell	adj.	causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence

ANSWERS: 20. boson, 21. poetic, 22. mobilize, 23. lifeless, 24. disprove, 25. barren, 26. lifeless, 27. smashing, 28. physicist, 29. astonishing, 30. smashing, 31. repulsive

32.	pote the countryside	v.	to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information
33.	amateur aster	n.	a physicist who studies astronomy
34.	victim of cathic injuries	adj.	extremely harmful; causing physical or financial destruction
35.	uny the system	v.	to bring or join something together so that they form a single unit
36.	fod the use of chemical weapons	ν.	to order somebody not to do something, especially officially; to keep something from happening or arising
37.	unqbly bad	adv.	without a doubt; certainly
38.	finng of a financial plan	n.	the act of making small adjustments or changes to improve or optimize the performance, quality, or effectiveness of something
39.	talented phst	n.	a scientist who specializes in the field of physics
40.	exe the crowd	<i>v</i> .	to make someone feel suddenly enthusiastic or eager
41.	ban desert	adj.	unable to produce or sustain growth; lacking fertility; unproductive; lacking interest, excitement, or creativity; empty or desolate
42.	gm mood	adj.	looking or feeling dejected; characterized by a gloomy or depressed mood

ANSWERS: 32. populate, 33. astronomer, 34. catastrophic, 35. unify, 36. forbid, 37. unquestionably, 38. fine-tuning, 39. physicist, 40. excite, 41. barren, 42. glum

43.	make a fue protest	adj.	incapable of producing any useful result; pointless
44.	pote the spreadsheet	v.	to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information
45.	astcal observation	adj.	relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
46.	conspiracy thst	n.	a person who develops or formulates theories about a particular subject, especially in the sciences or social sciences; someone who engages in theoretical thinking or speculation
47.	nb with cold	adj.	unable to feel physical sensation and movement; not showing human feeling or sensitivity
48.	the mulse hypothesis	n.	a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
49.	a mining puzzle	adj.	extremely surprising or overwhelming and, therefore, difficult to understand or imagine
50.	gray sqel	n.	a small to medium-sized rodent with a bushy tail, found in almost every part of the world
51.	vie with anger	v.	to move or cause anything to move fast and in small increments from side to side

ANSWERS: 43. futile, 44. populate, 45. astronomical, 46. theorist, 47. numb, 48. multiverse, 49. mind-boggling, 50. squirrel, 51. vibrate

52. dive global warming	v.	to show that something is not true or correct
53. wz kid	v.	to move or run quickly and smoothly with a hissing or buzzing sound; to excel or perform skillfully in a particular area; to urinate; (noun) a person who is very clever or skilled at something
54. coe in midair	v.	to hit something violently when moving
55. exe rebellion	v.	to make someone feel suddenly enthusiastic or eager
56. moze a stiff joint	v.	to make something ready for action or use; to organize people or resources for a particular purpose
57. a mining display	adj.	extremely surprising or overwhelming and, therefore, difficult to understand or imagine
58. solar aster	n.	a physicist who studies astronomy
59. vie at a regular frequency	v.	to move or cause anything to move fast and in small increments from side to side
60. fod smoking in public areas	v.	to order somebody not to do something, especially officially; to keep something from happening or arising
61. gm expression	adj.	looking or feeling dejected; characterized by a gloomy or depressed mood
62. finng process	n.	the act of making small adjustments or changes to improve or optimize the performance, quality, or effectiveness of something

ANSWERS: 52. disprove, 53. whiz, 54. collide, 55. excite, 56. mobilize, 57. mind-boggling, 58. astronomer, 59. vibrate, 60. forbid, 61. glum, 62. fine-tuning

ANSWERS:

Session 3: Fill in the Blanks

- 1. The racing car _____ past the grandstands, leaving a trail of dust behind it.
- v. to move or run quickly and smoothly with a hissing or buzzing sound; to excel or perform skillfully in a particular area; to urinate; (noun) a person who is very clever or skilled at something
- 2. The feminist ______ criticized traditional models of gender roles and argued for greater equality between the sexes.
- *n.* a person who develops or formulates theories about a particular subject, especially in the sciences or social sciences; someone who engages in theoretical thinking or speculation
- 3. He spoke in an _____ tone, expressing his genuine concern for the safety of everyone involved.
- *adj.* characterized by sincere and severe conviction or effort; showing a deep and a genuine sense of purpose or commitment
- 4. The people believe that they can _____ the country.
- *v.* to bring or join something together so that they form a single unit
- 5. This question has fascinated solar ______ for decades.
- *n.* a physicist who studies astronomy
- 6. The news of her sudden death was ______ to everyone who knew her.
- adj. surprising or shocking; difficult to believe
- 7. Deer, squirrels, and birds primarily _____ the forest.
- v. to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information

ANSWERS: 1. whizzed, 2. theorist, 3. earnest, 4. unify, 5. astronomers, 6. astonishing, 7. populate

- 8. The sunset was so beautiful it looked like a ______ scene from a movie.
- *adj.* of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way
- 9. It was ______ to try and fix the broken vase, as it was too badly damaged.
- adj. incapable of producing any useful result; pointless
- 10. God ______ you should regret your marriage.
- v. to order somebody not to do something, especially officially; to keep something from happening or arising
- 11. The search for new _____ particles is one of the most exciting areas of modern physics.
- *n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave
- 12. The ______ in the park were very friendly and came right up to us looking for food.
- *n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world
- 13. Educating hundreds of thousands of recruits is a ______ task.
- *adj.* extremely surprising or overwhelming and, therefore, difficult to understand or imagine
- 14. The ______ of the car engine made it run more smoothly.
- *n.* the act of making small adjustments or changes to improve or optimize the performance, quality, or effectiveness of something
- 15. The news of her promotion _____ her.
- v. to make someone feel suddenly enthusiastic or eager

ANSWERS: 8. poetic, 9. futile, 10. forbid, 11. boson, 12. squirrels, 13. mind-boggling, 14. fine-tuning, 15. excited

- 16. The interests of the two countries _____.
- v. to hit something violently when moving
- 17. She looked _____ after receiving the disappointing news.
- *adj.* looking or feeling dejected; characterized by a gloomy or depressed mood
- 18. The band's new album was a ______ success, reaching the top of the charts.

adj. very successful or impressive; causing something to be broken or destroyed

- 19. The cost of the new equipment was ______ and beyond the company's budget.
 - *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
- 20. The politician's rhetoric was so ______ that many people refused to vote for him.
- *adj.* causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence

21. The extinction rate of aquatic animals was _____.

- adj. extremely harmful; causing physical or financial destruction
- 22. Creativity and ______ are often brought about by extreme concentration.
- *n.* the quality of inventing things or solving problems in clever new ways
- 23. My left arm became _____.
- *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity

ANSWERS: 16. collide, 17. glum, 18. smashing, 19. astronomical, 20. repulsive, 21. catastrophic, 22. ingenuity, 23. numb

- 24. The various universes within the _____ are sometimes called parallel universes.
 - *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
- 25. The military _____ troops to the border.
- *v.* to make something ready for action or use; to organize people or resources for a particular purpose
- During the flight, the wings of the plane _____.
- *v.* to move or cause anything to move fast and in small increments from side to side
- 27. The researchers were unable to ______ the theory.
- *v.* to show that something is not true or correct
- 28. Einstein was an outstanding and famous ______ of the 20th century.
- *n.* a scientist who specializes in the field of physics
- 29. _____ he was the best candidate for the job.
- adv. without a doubt; certainly
- 30. The plant had a ______ appearance, indicating that it was not getting enough water.
- *adj.* without life; dead
- 31. The desert is known for its ______ terrain with no sign of vegetation.
- *adj.* unable to produce or sustain growth; lacking fertility; unproductive; lacking interest, excitement, or creativity; empty or desolate

ANSWERS: 24. multiverse, 25. mobilized, 26. vibrate, 27. disprove, 28. physicist, 29. Unquestionably, 30. lifeless, 31. barren

ANSWERS: