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# Vocabulary Builder Reference from...

Fabio Pacucci: Hawking's black hole paradox

explained | TED Talk

https://www.ted.com/talks/fabio\_pacucci\_hawking\_s

black\_hole\_paradox\_explained



# **Advanced Words Only**

#### **IMPORTANT**

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## **Session 1: Word List**

#### paradox

 a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;

synonym: incongruity, dichotomy, contradiction

(1) French **paradox**, (2) the **paradox** of the heap There are many theories to explain this **paradox**.

#### reshape

- v. to change the form or structure of something synonym: alter, adjust, modify
- (1) **reshape** education policy, (2) **reshape** my thoughts The advent of the Internet completely **reshaped** the manufacturing industry.

#### unravel

- v. undo twisted, knitted, or woven threads by separating it synonym: separate, unknot, ravel
- (1) **unravel** a knit, (2) **unravel** a plot Detectives are still attempting to **unravel** the mystery of his death.

#### physicist

- n. 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.

#### evoke

 to bring or recall a feeling, memory, or image into your mind

synonym: arouse, raise, inspire

(1) **evoke** a sense of awe, (2) **evoke** sympathy

This movie is likely to **evoke** strong emotions in the viewer.

#### conserve

v. to protect something, especially the natural environment or culture, from change, damage, or destruction

synonym: preserve, save, maintain

(1) means to **conserve** energy, (2) **conserve** coal resources

Children must be taught to **conserve** our natural environment.

#### recreate

v. to make something that existed previously happen or appear to exist again

synonym: renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

#### irretrievable

adj. not able to be retrieved or recovered; irreparable or irreversible; not able to be rectified or undone

synonym: unrecoverable, irredeemable, hopeless

(1) an **irretrievable** mistake, (2) cause **irretrievable** damage

The damage to the computer's hard drive was **irretrievable**, and I lost all of my important files.

#### hawk

 a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations

synonym: militarist, jingo, aggressor

(1) cast off a **hawk**, (2) congressional **hawk**That team signed a center forward who was a ball- **hawk**.

#### evaporate

doe

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.
- n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym: rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**Hunters use a whistle that makes the **doe** sound to lure stags.

#### evaporation

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

#### opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark The phone rang at the most **opportune** time.

#### misunderstand

- v. to interpret or understand something in the wrong way synonym: misinterpret, misperceive, misapprehend
- (1) **misunderstand** each other, (2) **misunderstand** entirely about her

You should not **misunderstand** the meaning of freedom.

### holography

 a technique for creating three-dimensional images using lasers to record and reconstruct interference patterns

synonym: three-dimensional photography, laser holography, digital holography

(1) optical **holography**, (2) 3D **holography Holography** technology uses light interference patterns to create a 3D image.

#### observable

adj. that can be noticed or seensynonym: visible, perceptible, detectable

(1) **observable** change, (2) experimentally **observable** Any theorem relies on both **observable** fact and assumption.

# **Session 2: Spelling**

1.	misand each other	<i>v</i> .	to interpret or understand something in the wrong way
2.	unI a plot	<i>v</i> .	undo twisted, knitted, or woven threads by separating it
3.	an opne remark	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose
4.	misand entirely about her	<i>v</i> .	to interpret or understand something in the wrong way
5.	ree education policy	<i>v</i> .	to change the form or structure of something
6.	French pax	n.	a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;
7.	evte almost overnight	<i>v</i> .	to turn a liquid into a gas; to become less intense and disappear gradually
8.	cove coal resources	<i>v</i> .	to protect something, especially the natural environment or culture, from change, damage, or destruction
9.	optical holhy	n.	a technique for creating three-dimensional images using lasers to record and reconstruct interference patterns
10.	slow evaon	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: 1. misunderstand, 2. unravel, 3. opportune, 4. misunderstand, 5. reshape, 6. paradox, 7. evaporate, 8. conserve, 9. holography, 10. evaporation

11.	opne occasion	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose
12.	means to cove energy	ν.	to protect something, especially the natural environment or culture, from change, damage, or destruction
13.	eve sympathy	<i>v</i> .	to bring or recall a feeling, memory, or image into your mind
14.	rete a single country	<i>v</i> .	to make something that existed previously happen or appear to exist again
15.	cast off a hk	n.	a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
16.	obsle change	adj.	that can be noticed or seen
17.	d_e rabbit	n.	a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
18.	congressional hk	n.	a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
19.	cause irrble damage	adj.	not able to be retrieved or recovered; irreparable or irreversible; not able to be rectified or undone
20.	talented phst	n.	a scientist who specializes in the field of physics
21.	the pax of the heap	n.	a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;

ANSWERS: 11. opportune, 12. conserve, 13. evoke, 14. recreate, 15. hawk, 16. observable, 17. doe, 18. hawk, 19. irretrievable, 20. physicist, 21. paradox

22. ree my thoughts	<i>v</i> .	to change the form or structure of something
23. experimentally obsle	adj.	that can be noticed or seen
24. buck and d_e	n.	a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
25. eve a sense of awe	ν.	to bring or recall a feeling, memory, or image into your mind
26. evaon 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
27. evte the water	ν.	to turn a liquid into a gas; to become less intense and disappear gradually
28. rete the feeling of the 1920s	v.	to make something that existed previously happen or appear to exist again
29. theoretical phst	n.	a scientist who specializes in the field of physics
30. unl a knit	ν.	undo twisted, knitted, or woven threads by separating it
31. an irrble mistake	adj.	not able to be retrieved or recovered; irreparable or irreversible; not able to be rectified or undone
32. 3D holhy	n.	a technique for creating three-dimensional images using lasers to record and reconstruct interference patterns

ANSWERS: 22. reshape, 23. observable, 24. doe, 25. evoke, 26. evaporation, 27. evaporate, 28. recreate, 29. physicist, 30. unravel, 31. irretrievable, 32. holography

Vocab-Builder Ref from	"Fabio Pacucci:	Hawking's	black hole	paradox explained	IED Ia	ilk" (16 words)	
ANSWERS:							
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# **Session 3: Fill in the Blanks**

1. v.	Detectives are still attempting to the mystery of his death. undo twisted, knitted, or woven threads by separating it
2. v.	The sun will the mist.  to turn a liquid into a gas; to become less intense and disappear gradually
	Any theorem relies on both fact and assumption.  that can be noticed or seen
4. n.	Hunters use a whistle that makes the sound to lure stags.  a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
5. n.	There are many theories to explain this  a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;
6. <i>n</i> .	That team signed a center forward who was a ball  a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
7.	The damage to the computer's hard drive was and I lost all of my important files.
adj	not able to be retrieved or recovered; irreparable or irreversible; not able to be rectified or undone
8. adj	The phone rang at the most time.  suitable or happening at a time that is suitable or convenient for a particular purpose
	SWERS: 1. unravel, 2. evaporate, 3. observable, 4. doe, 5. paradox, 6. hawk, 7. trievable, 8. opportune

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