One sma	all step for
	_, one giant
leap for	



What is humanity's greatest accomplishment?



What would you take on a one-way trip to Mars?



A new planet was just discovered. What should it be named?



#### \_\_\_\_\_, next on Cosmos.



### What is the best thing about being in zero-G?



## The next Mars landing protocol nickname is



What is the worst thing for an astronaut to hear from Mission Control?



History says it was the fruit fly. But what was REALLY the first living thing in space?



## Aliens invade! How do we fight back?

Step 1: \_\_\_\_\_

Step 2: \_\_\_\_\_



SETI finally gets a signal. What do the aliens say?



What do astronauts think about just before launch?



Due to budget cuts, the space agency has been forced to cancel the \_\_\_\_\_ program.



During the space race, the Soviets were the first to have \_\_\_\_\_ in space.



# The secret to faster-than-light travel is



Aliens arrive and world leaders send welcome presents. Your country sends \_\_\_\_\_.



You are on the first Virgin Galactic™ flight! What have you brought with you?



A new module is being added to the space station. What is it for?



# Astronomers discover a new \_\_\_\_\_ shaped nebula. They call it



History claims it was his astronomy that got Galileo in trouble. In truth, it was \_\_\_\_\_.



### What does a black hole smell like?



# What is Phil Plait's most attractive feature?



# When 006 fell off the line feed at Arecibo Observatory, he screamed, "!



Pamela Gay conned me into doing the Space Hangout by threatening me with



We won't get our funding renewed unless we invoke \_\_\_\_ in the next proposal.



I solved t	the three-	body
problem	when I	
crossed		with



understands
quantum physics with
its implications for
Dark .



# Everything in the Universe is either or



### Why am I optically thick?



### That's not a fuzzy blob! That's !



## Tycho Brahe had a nose made of



# According Wallace and Gromit, the Moon is made of



## When you look at M101, you see



#### Never look directly at



The four gas giants are Jupiter, Saturn, \_\_\_\_\_, and Neptune.



What is the main reason why Pluto is no longer a planet?



If I could take only two things to Mars, they would be \_\_\_\_\_ and .



# Super-massive black holes have so much \_\_\_\_ because of



## The only thing bigger than \_\_\_\_\_ is



\_\_\_\_ is the true center of the Galaxy.



Out of everything we thought we'd see on Pluto, we certainly didn't expect to find



When Voyager 1 left the Solar System, we didn't realize it would be entering \_\_\_\_\_.



# When William Herschel first discovered \_\_\_\_\_, he wanted to call it



It is absolutely essential to bring when colonizing a new planet.



## On the Space Station, astronauts use \_\_\_\_\_ to keep busy.



### I'm not saying it's aliens, but it's



Nothing goes faster than the speed of light, except maybe



The commander stared aghast at the rapidly approaching



We were blown away to find that the Universe had evolved from \_\_\_\_\_.



# Landing \_\_\_\_\_ on Europa would have been a lot easier if it weren't for

We sent a greeting into space. Aliens sent back instructions about how to make



I can't believe that star is catalogued with the name .



Little known fact: The Hubble Space Telescope was originally designed with



Everyone says that the Cold War was the reason. Really, we went to the Moon for



Falling into a black hole sucks! But it's a good thing you have your trusty \_\_\_\_\_.



The next destination for the Spaceship of the Imagination is



### Supernovae form from a collapsing \_\_\_\_\_.



## Big meteors seem to target Russia because of .



When aliens first visited Earth, they confused \_\_\_\_\_ with \_\_\_\_.



In the words of Carl Sagan, we are all made of .



### I just terraformed Mars using \_\_\_\_\_ and



#### I lost my space telescope due to a(n) error.



I studied \_\_\_\_\_ for my Ph.D. dissertation.



# The high resolution images of the \_\_\_\_\_Nebula reveals evidence of .



### A parsec is a measure of .



What should I use to survive the vacuum of space?



A photon walks into a bar and says, "I've lost my \_\_\_\_\_. Can you point me to the \_\_\_\_\_?"



#### Edwin Hubble to Vesto Slipher: "My goodness, look at that



#### To detect the Cosmic Microwave Background, you need



### Intergalactic space is actually full of



## The nearest \_\_\_\_\_is ONLY 80 million light years from Earth.



#### Who killed Pluto?



# The two Gemini telescopes are named \_\_\_\_\_ and \_\_\_\_.



### My favorite constellation is



I never thought I'd be cleaning up after \_\_\_\_ at the Galactic Bar.



What better way for humankind's first colony to die than by



Even the awesomeness of its laser could not save Curiosity from

CosmoQuest

**Cards Against Astronomy** 

#### In a few centuries, Voyager will reach



# When Neil deGrasse Tyson hears \_\_\_\_\_, he can't help but think about .



## \_\_\_\_ will become our North Star in 12,000 years.



We need	l more
	in order to
better un	derstand



#### I discovered the first in



#### Black holes only exist because of .



### For my birthday, my grad students got me



#### The internet is for



After its optics upgrade, the Hubble Space Telescope could clearly see



## This year's Nobel Prize for Physics is for the discovery of



The only thing Cmdr.
Hadfield wasn't
allowed to tweet was a
picture of \_\_\_\_\_.



#### The latest Japanese robot has .



## Orbiting hotels will include complementary



### The ghosts of Martians past look a lot like



#### Deimos is jealous of Phobos' \_\_\_\_\_.



### When I said white dwarf, I didn't mean



#### Billions and billions of



I stayed up to watch the launch because of



## Galileo Galilei first used his telescope to look at \_\_\_\_\_.



Scientist are worried about the effect of \_\_\_\_\_ during long-term spaceflight.



As a grad student, I spent most of my time with \_\_\_\_\_.



## Astronomical research leads to unexpected discoveries, such as



# A new space telescope is being built to study the effects of on .



### My computer keeps giving me an Error:



One sm	all step for
	_, one giant
leap for	



#### What are stars made of?



#### Space is mostly full of



To make the math easier, I just assumed were spherical.



#### NOT SAFE FOR WORK CARDS FOLLOW!

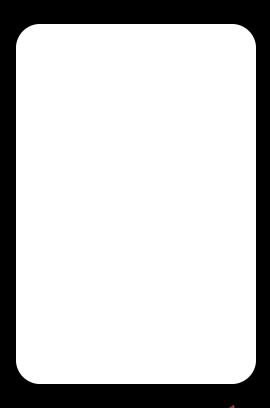


Is that \_\_\_\_\_ in your pants or are you just happy to see me?



Having sex in space is something referred to as







A pale blue dot



Hyper-dimensional beings bent on harvesting brains



Buzz Aldrin punching a guy in the face





#### The Vomit Comet



### Carl Sagan



# The Challenger explosion



### Pooping into a tube



## The rings around Uranus



An ewok in a lake of liquid fart





A steampunk telescope



### SCIENCE!!!!!



Bill Nye's hair



### The Great Red Spot



**Cards Against Astronomy** 

# Explosive decompression



Relativity	



99.9% the speed of light





Seven minutes of terror





A bomb





Sputnik		



CosmoQuest Cards Against Astronomy

A person in a lab coat arguing with a squirrel



Neil deGrasse Tyson's mustache



An extinction-level event





A long, lonely night at the telescope



### Losing bone mass



Geostationary orbit



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Dying alone in the cold, silent vacuum of space



Crashing a lander due to a unit conversion error



Staring at the sun





### Dehydrated ice cream



The human need to exploration



Farting in a spacesuit



Nerds	



### The event horizon



Bruce Willis' space drill



The rings of Saturn



CosmoQuest Cards Against Astronomy

### Ejecta blanket



Galactic bulge





### Globular cluster



### Solar prominence



### Bailey's beads



### Coronal mass ejection



### Arecibo Observatory



### Observatory cats



### Sequestration



## Socially awkward astronomers



### The Oort Cloud



Redshirts	`



Carbonaceous chondrite meteorites that look like poop



### White holes



### Darth Vader



# Chocolate



### Dark Matter



### Dark Energy



## Movies like *Armageddon*



# Scorpions



### Altitude sickness



### Mind bullets



A new law of physics



CosmoQuest Cards Against Astronomy

## Wensleydale



## Flocculence



### Messier Marathon



### Billions and billions



#### Hawking Radiation



43 arc-seconds per century



CosmoQuest Cards Against Astronomy

Heat death of the universe



Warp drive	
	J



Being hunted by Orion



## A moon of Uranus



## KHAAAAAAN!!!!



A raspberry-flavored nebula





# Venera 13





Intense solar winds





The pre-solar nebula



CosmoQuest Cards Against Astronomy

# Chris Hadfield's *Space Oddity* video



#### Carl Sagan's remains



# The Schwartzschild Radius



My dream space vacation





## Mars Polar Lander



#### Sarcastic Rover



A mass spectrometer



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#### Caroline Herschel



# A collision with Pluto



A scorching ball of plasma



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# Liquid hot magma



A naked singularity



A gravitational assist



CosmoQuest Cards Against Astronomy

#### Dozens of hot Jupiters



# Spherical aberration



# Optical depth





## Radio waves



#### Proton-proton chain



Ultra-high-energy cosmic rays



# Strange quarks



Batman breathing in space





Richard Branson terraforming the Universe



Ridiculous internet memes





# The Star Wars Christmas special



# Werner von Braun



## The Milky Way



## Klingon space



A giant bowl of spicy guacamole





Turtles all the way down.



## The collapsing Universe



Spherical coordinate system



Carl Sagan's apple pie





A wormhole



The three-body problem





#### Spaghettification



	My towe



# Chris Hadfield's mustache



Isaac Newton's apple



Self-sealing stem-bolts



The last thing you'd expect



## Sound in space



## Finding Waldo



## Puking in zero-G



A big red button



Aliens	



A huge asteroid



#### Venusian clouds



A triple-fried egg chili and chutney sandwich



The speed of stupid



# **Tachyons**





Pan-galactic gargle blaster



# The Beagle probe crashing into Mars



## Congress slashing science budgets



#### Spent rocket booster



## **Spacely Sprockets**



# The ghost of Frank Poole



#### A derelict satellite



## Angry Richard Dawkins



A super-massive black hole with a taste for humans



## Schrödinger's cat



#### Unit conversions



An iPad™





### All of Jupiter's moons



### Laser-wielding robots



# Space marines



# Space chimp



The mighty tardigrade



CosmoQuest Cards Against Astronomy

## Panspermia



### Buzz Aldrin



## Planet cake-pops



A model of the Solar System



Mysterious cloud of green space gas



### The instability strip



### **Anomalous Cephids**



# The Galactic Anti-Center





### Galactic cannibalism



Area 52





### Light pollution



The next Sloan Digital Sky Survey



### Zero-G toilet



### Orion's sword



# The Medium Sized Dipper



One giant leap for mankind



# Unlimited green cheese



Glory, honor, and cash





#### **Ancient Astronauts**



## Quark Gluon Plasma



### Moon Cannon



## A planet-killer



# Duck Dodgers of the 24½ Century



# Core-collapse supernovae



**Anti-gravity** 



Hydrostatic equilibrium



CosmoQuest Cards Against Astronomy

## **Astrologers**



### Vladimir Putin



#### Dashcams



# Conservation of angular momentum



#### Solar flares



A comet's tail



#### The Crab Nebula



### Xenu, the Galactic Ruler



## Ursa Minor



'Muric	a		



Camilla, the rubber chicken



The Mighty Ducks™





#### Nazis on the Moon



Richard Garriott's hair



A book of Vogon poetry



## Carl Sagan's turtleneck



#### HAL 9000



#### The Monolith



## Buzz Aldrin's PR agent



## Cosmic Microwave Background Radiation



An inflatable space station



CosmoQuest Cards Against Astronomy

Burning up in the atmosphere



The grand unification theory



#### John Mather's Nobel Prize



#### Pigeon poop



#### Brass ovaries



#### Amelia Earhart



A xenophobic first contact ambassador



Astronauts spending all their time on Twitter



Cats playing the piano



CosmoQuest Cards Against Astronomy

#### Spending all night at Mauna Kea



A breeding pair of stuffed rhinos



#### Space dysentery



A cryostasis chamber



# **Enterprise**



An extroverted aerospace engineer



The electromagnetic spectrum refracted in raindrops



#### The Horsehead



#### Black Jesus



#### Abuse of the Doppler Effect



# Fabry-Perot Interferometer



A crusty neutron star





Cleaning high precision optics with spit and coarse brown paper



### Neil Patrick Harris



Dick Cheney's head, kept alive in oxygenated liquid and glitter



A telescope with an interesting acronym



### Student loan debt



The shrinkage Han Solo experienced when encased in carbonite



A triangular rubber coin 6,800 miles on a side



A graveyard of failed creationist ideas



### Chocolate ganache



#### An infinite wormhole



An x-ray binary



Sir Isaac Newton's wig



CosmoQuest Cards Against Astronomy

The Unabridged Hitchhiker's Guide to the Galaxy



# Cybernetic enhancements



## Russell's Teapot



Tea. Earl Grey. Hot.



An opaque shopping bag sealed shut with lightly-chewed gum



A child's spacesuit filled with urine



The burning rage of 1000 suns





A pulsar with a period of 10<sup>-12</sup> seconds



### The Very Large Array



My mother-in-law's heliopause





# Uranus



My asteroid belt



A champagne supernova



A Dicke-switched super-heterodyne



Thor's hammer, forged in the heart of a dying star



# Stonehenge





### Halley's Comet



## Saturn's hexagon



# Olympus Mons



### The Cigar Galaxy



The "face" on Mars





### The Goldilocks Zone





Time-wimey wibbly-wobbly



## The Bad Astronomer



Yoda's rage



CosmoQuest Cards Against Astronomy

Mental incapacitation at the high altitude of the Atacama Desert



A dancing asteroid





## Plowing face-first into Saturn's rings



Riding a comet, rodeo style, into the surface of the Earth



Kayaking the methane lakes of Titan





A band trip to the heart of a globular cluster



A trip to the center of the Galaxy to meet an alien pretending to be God



V-ger		



Going bibbly in the black



The mind-numbing chatter of the cosmic background



# BILLIONS and BILLIONS of Carl Sagans



The destruction of all intelligent life in the Galaxy



Neil Armstrong's right boot





William Shatner's hairpiece



#### Astronaut diapers



Tang	



CosmoQuest Cards Against Astronomy

## Dihydrogen monoxide



The Space Station toilet





# A speechless Neil deGrasse Tyson



The daydreams of bored students



#### Drinking and deriving



The music of the spheres



A nervous, sweaty grad student on exam day



International collaboration via Skype



A migraine-inducing meeting



CosmoQuest Cards Against Astronomy

Plutonium P32 space modulator



A Parsec Award winning podcast



Sneaking in a nap while running the telescope



A distorted primary mirror





The 57<sup>th</sup> digit of Pi



Human casualties of the robot uprising



Black on the right side, white on the left



White on the right side, black on the left



Leftover bottles from the previous night





# Yuri's Night



The width of an F-1 engine



# Three flights of the Jupiter-C



A luminous blue variable





#### A 10-inch Dobsonian



#### BATMOON!!!!



A red giant's mass ejection



#### The Virgo Cluster



A huge Celestron™



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Firing a gun at the primary mirror



Just another Kuiper Belt object



CosmoQuest Cards Against Astronomy

#### Blackbody radiation



Galileo as an awkward teenager



#### Little Green Men



The "sky crane" maneuver



Tweeting from a space toilet



#### Holistic detective



#### Ptolemy's epicycles



Mike Brown, destroyer of worlds





A very noisy astronomer



Voyager 1 leaving the Solar System... again



# Eccentricity



#### Accretion disk



Black hole to bulge mass relation



# Coronal hole



#### Double asteroid



Greatest elongation



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## Kirkwood Gaps



Sea floor spreading



CosmoQuest Cards Against Astronomy

#### Trojan asteroid



### Waxing crescent



#### Tidal stripping



#### Chandrasekhar Limit



#### Eruptive prominence



# Lobate scarps



#### Tau Boo b



# Dry merger



A compact dwarf



**Cards Against Astronomy** 

# Swollen red giants



#### Orbital insertion



German equatorial mount



CosmoQuest Cards Against Astronomy

# Libration



Things that go bang



CosmoQuest Cards Against Astronomy

# Science friction



# Every third full Moon



Television "science"



CosmoQuest Cards Against Astronomy

Video game physics



CosmoQuest Cards Against Astronomy

# Fraser Cain's Science Circle



Atmosphere scrubbers



CosmoQuest Cards Against Astronomy

# Happy trees



Another terrible photo from your smart phone



# The Virtual Star Party



#### Hot Pockets™



#### Dirty snowballs



#### The Tim Tam™ Slam



Heart-shaped boxes



CosmoQuest Cards Against Astronomy

# Young Steven Hawking



# All-nighters



The SpaceX<sup>™</sup> break room





The SpaceX<sup>™</sup> parking lot





# Grant-writing



#### Research funding



#### Tidal stress



An endless gravitational well



#### Alien chest-bursters



Recycled human waste



# Space pirates



# Carl Sagan's turtleneck



#### Buzz Aldrin's left-hook



# The Infinite Improbability Drive



## Whales in space



The incredible dwarf planet uprising of 2042



#### Interplanet Janet



The Big Rip



The speed of light



CosmoQuest Cards Against Astronomy

"Pitching a tent" under the stars



#### The Seven Sisters



# First Contact



### Astronaut ice cream



#### The seventh chevron



A sonic screwdriver





#### An exo-planet



All the missing socks



CosmoQuest Cards Against Astronomy

Van Allen Belt and suspenders



A silicon-based life form





#### Einstein's hair



## Dr. Sheldon Cooper



## Frakking toasters



#### Radio lobes



#### A celestial mechanic



A cosmic string quartet



High metallicity



CosmoQuest Cards Against Astronomy

# Cookies shaped like galaxies



Late-night observing runs





All the coffee in the world





## Space leggings



## Microbes in space



All the iridium in the asteroid belt



CosmoQuest Cards Against Astronomy

#### Analog star charts



The prime focus cage



CosmoQuest Cards Against Astronomy

Fear of electromagnetic radiation



#### Parabolic tentacle



Whispers in space





## Vending machines



## Frakking cylons

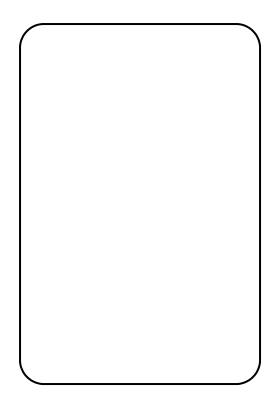


#### **David Boreanaz**



# NOT SAFE FOR WORK CARD FOLLOW







CosmoQuest Cards Against Astronomy

Being anally probed



CosmoQuest Cards Against Astronomy

#### Zero-G coitus



### Drawing a penis on Mars



Genitalia unrestrained by the force of gravity



Enough weed to let you see the pictures in the constellations



## Huffing rocket fuel



Experience the deep sensual pleasure of multivariate calculus



Sneaking liquor onto the space shuttle





The first porno filmed in space



Laughing uncontrollably at the mention of Uranus



Sending a proctologist to Uranus



A constellation shaped like a vagina



### Hot space sex



Copious amounts of alcohol



COSMOQUEST Cards Against Astronomy

### Interstellar orgies



Penis-shaped rockets



Cosmo Quest **Cards Against Astronomy**  Fingering the outer rim



CosmoQuest Cards Against Astronomy

Quantum foam, with a touch of racism



Awkwardly getting close to Orion's Belt





# Clitstalation





Intravenously drinking two bottles of Everclear



# Subliminal 'shrooms



Han Solo, the motherfucker who shot first



Jean-Luc Picard's "The Inner Light" flute stuck up Worf's ass



# Sally Ride's infinite cockblock



# Buzz Aldrin's plastic surgeon



The great colonic storms of Venus



Michael Collins masturbating as he watches Neil and Buzz on the Moon



### Telescope lube



Billions and billions of hours of telescope porn



Valles Marineris, the vagina of Mars



## A threesome with Castor and Pollux



# Carl motherfucking Sagan



The Jewish boy who had to wash von Braun's dirty briefs.



Getting to third base on the Saturn V



Dancing a naked jig on the primary mirror



A cubic fucktron of empty space



CosmoQuest Cards Against Astronomy

Radio dong



CosmoQuest Cards Against Astronomy

# Cards Against Astronomy

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