

"Across the sea of space, the stars are other suns." Carl Sagan



# ASTRO

NEWSLETTER

*Special Edition*

December 26, 2019



# 10 FACTS ABOUT SPACE!

Space is amazing! The sheer vastness of it, along with the trillions upon trillions of objects in the many billion galaxies of the universe is almost incomprehensible to the human brain. Let's learn now!

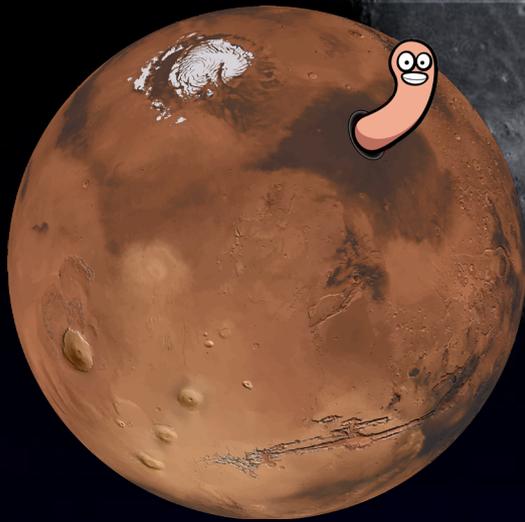


# 10 Facts About Space!

# 1

## SPACE IS COMPLETELY SILENT

There is no atmosphere in space, which means that sound has no medium or way to travel to be heard. Astronauts use radios to stay in communication while in space, since radio waves can still be sent and received.



## THERE MAY BE LIFE ON MARS

Of all the planets in our solar system (apart from Earth), Mars is the one most likely to be hospitable to life. In 1986, NASA found what they thought may be fossils of microscopic living things in a rock recovered from Mars.

# 2

# 3

## NOBODY KNOWS HOW MANY STARS ARE IN SPACE

Right now, scientists and astronomers use the number of stars only within our galaxy, The Milky Way, to estimate. That number is between 200-400 billion stars and there are estimated to be billions of galaxies so the stars in space really are completely uncountable.



# 10 Facts About Space!



## **A FULL NASA SPACE SUIT COSTS \$12,000,000**

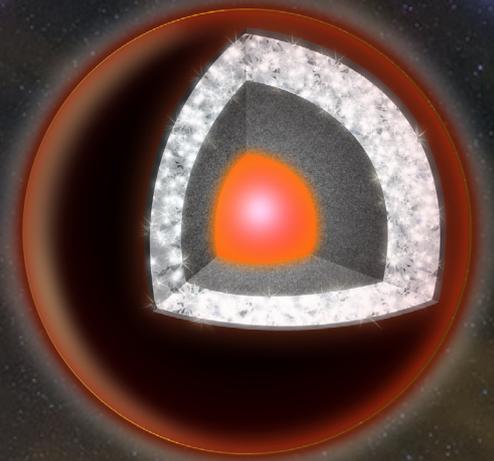
While the entire suit costs a cool \$12m, 70% of that cost is for the backpack and control module.

# 4

# 5

## **THERE MAY BE A PLANET MADE OUT OF DIAMONDS**

Research by Yale University scientists suggests that a rocky planet called 55 Cancri e — which has a radius twice Earth's, and a mass eight times greater — may have a surface made up of graphite and diamond. It's 40 light years away but visible to the naked eye in the constellation of Cancer.



## **THE FOOTPRINTS ON THE MOON WILL BE THERE FOR 100 MILLION YEARS**

The Moon has no atmosphere, which means there is no wind to erode the surface and no water to wash the footprints away. This means the footprints of the Apollo astronauts, along with spacecraft prints, rover-prints and discarded material, will be there for millions of years.

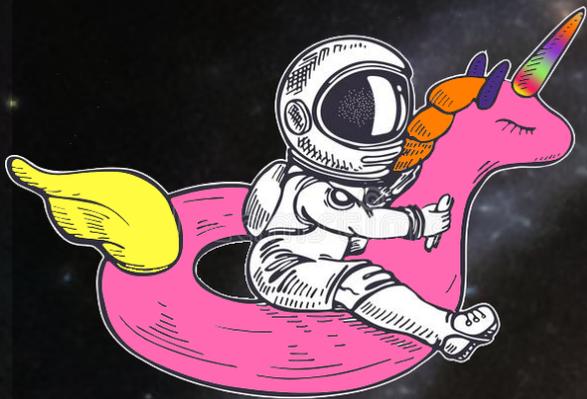
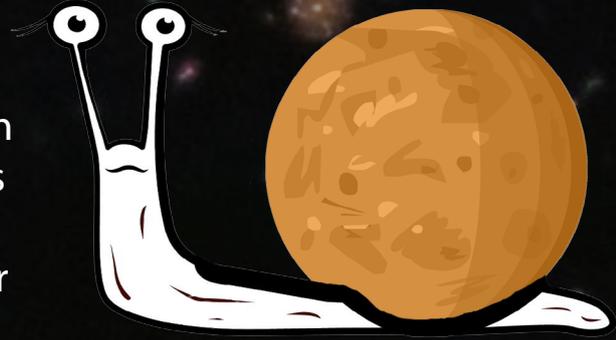
# 6

# 10 Facts About Space!

# 7

## ONE DAY ON VENUS IS LONGER THAN ONE YEAR

Venus has a slow axis rotation which takes 243 Earth days to complete its day. The orbit of Venus around the Sun is 225 Earth days, making a year on Venus 18 days less than a day on Venus.



## THERE IS FLOATING WATER IN SPACE

Astronomers have found a massive water vapor cloud which holds 140 trillion times the mass of water in the Earth's oceans somewhere around 10 billion light years away – making it the largest discovery of water ever found.

# 8

# 9

## THE SUN'S MASS TAKES UP 99.86% OF THE SOLAR SYSTEM

Made of three quarters hydrogen and helium for most of its remaining mass, the Sun accounts for 99.86% of the mass in our solar system with a mass of around 330,000 times that of Earth.



# 10 Facts About Space!

# 10

## THE MOON WAS ONCE A PIECE OF THE EARTH

The theory is that when Earth was a relatively young planet, it was struck by a giant object and this collision broke a piece of the Earth away to create the moon. This piece then began to orbit the Earth as a result of its gravitational pull.



# BONUS FACT!

## THERE IS A VOLCANO ON MARS THREE TIMES THE SIZE OF EVEREST

At 600 km wide and 21 km high, Olympus Mons is a volcano on Mars that may still be active, according to scientists. It is the tallest peak of any planet. However, the Rheasilvia central peak on the asteroid Vesta is taller at 22 km.

To learn whole lot more about space and space technologies, register to Space Camp Turkey's programs NOW!



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