

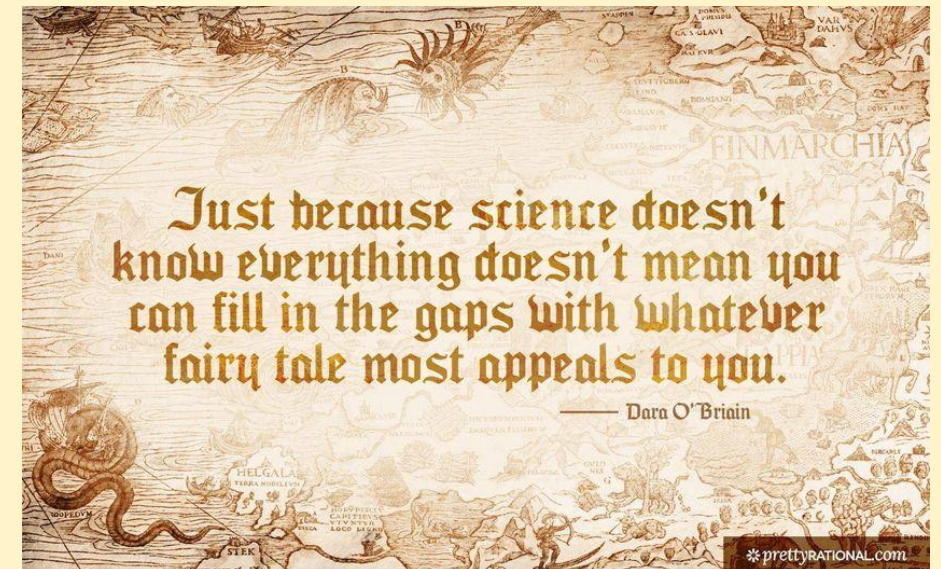
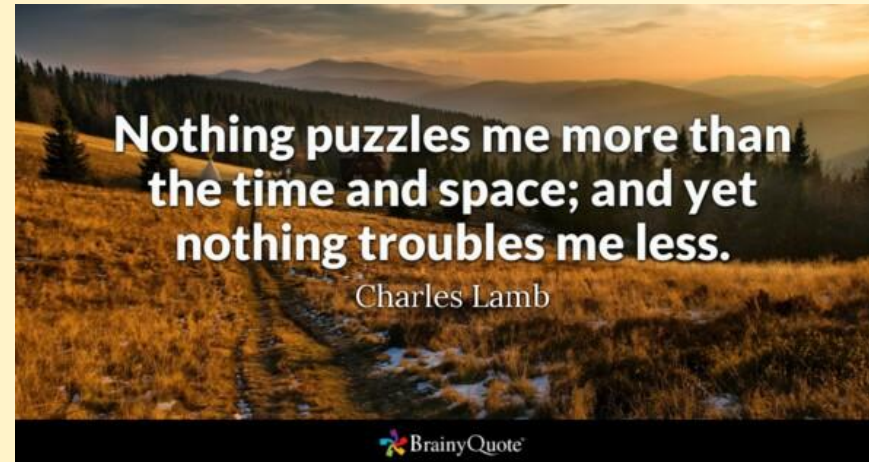
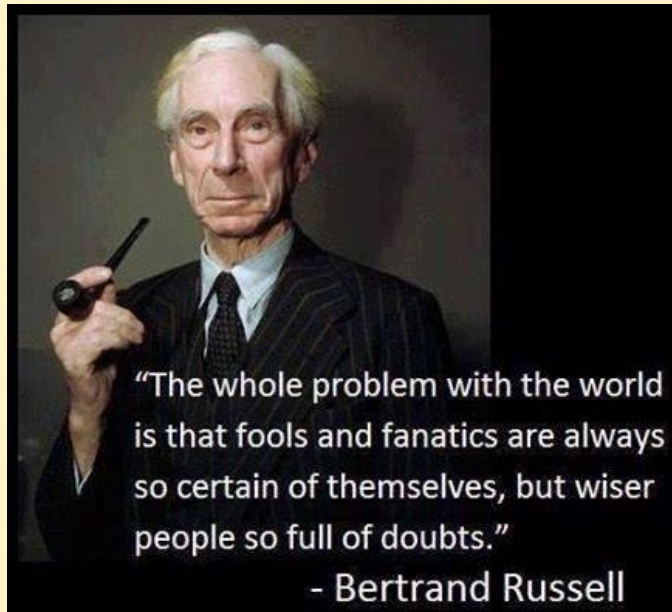
SPACE

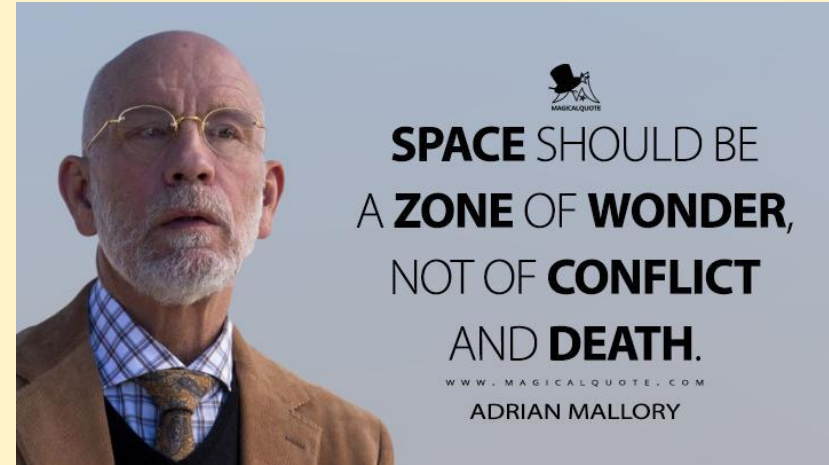


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How can you comment these quotes?





- The Universe is under no obligation to make sense to you.
- The Earth is the cradle of humanity, but mankind cannot stay in the cradle forever.

Konstantin Tsiolkovsky



# Outer Space. Domino.



core-asteroid- meteorite-solar system- space probe - stars- universe - telescope-  
 observatory- gravity- comet -orbit-diameter- explore- surface- distance- astronomer-  
 moon- galaxy- crater-- spacecraft



1. ....



2. ....



3. ....



4. ....



5. ....



6. ....



7. ....



8. ....



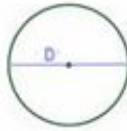
9. ....



10. ....



11. ....



12. ....



13. ....



14. ....



15. ....



16. ....

The sun, as seen from each of the planets.





# LIVING IN THE SPACE



Life on the Space Station is very different, at least until the astronauts get used to it. The Space Station goes round the entire Earth in just 1 hour and a half. So the crew sees the Sun rise and set 16 times every day! The most different thing is that there is no gravity. Astronauts float wherever they want to go. If you leave something lying around on the Space Station, it will float away. So you have to be tidy! This makes astronauts' everyday routines a little bit different from ours.



## EATING

Eating is tricky. Astronauts eat food from plastic bags with a spoon, and drink from squeeze bottles with a straw. If they are not careful, globs of food and blobs of water will wander away until they stick to a wall or an astronaut catches them.

## SLEEPING

Sleeping is much easier than on Earth, you don't need beds or bunks or any kind of mattress. Simply attach your sleeping bag to a good point, and get yourself in. Cover the little windows, put out the lights and, quite literally, float into sleep. Don't be too surprised if you are awakened by strange shapes floating next to your face, they are only your own arms.



## GOING TO THE TOILET

When astronauts go to the toilet, the first thing they have to do is to tie themselves to it, if not they would float around. Instead of using water, the toilet has a suction tube that takes the waste away. The solid waste then gets compressed and stored for later disposal, while urine is collected in a separate container to be recycled.

## WASHING YOURSELF

As water can't fall from the shower but floats around in spheres and sticks to surfaces, most astronauts find it not as relaxing to have a shower in the Space Station as on Earth. As they cannot fill a sink when they would like to wash themselves, they take sponge baths and use wet tissues (with soap) instead.

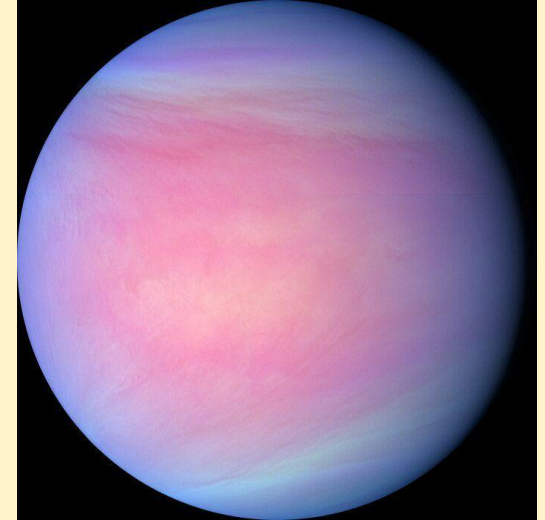


# First private passenger to go around the Moon

18th September 2018

1. Elon Musk's company SpaceX will fly a private passenger around the Moon.
2. Japanese online fashion billionaire Yusaku Maezawa, 42, said: "I choose to go to the Moon."
3. Maezawa, who also collects art, said at an event in California that he would invite six to eight artists from around the world to join him on the trip for free. "They will be asked to create something after they return to Earth," he told reporters.
4. Although the company haven't built the rocket yet, Musk hopes that the flight will happen in 2023. It will be the first time since 1972 that a human makes a journey to the Moon. Only 24 people have ever been to the Moon - all of them Americans, and only 12 of them landed on the Moon.
5. Elon Musk said he hoped that people saw it as a positive thing, and that they were very excited about it.
6. The trip will be on board the Big Falcon Rocket (BFR) and take four to five days. The company said that the mission would bring the chance of space travel a lot closer for ordinary people.
7. Mr Musk gave some technical details about the BFR. It will be 118m high and 9m from one side to the other.
8. Maezawa has already paid some money for the mission, but no one knows how much.
9. Future news about the project will be available on a website and on social media using the hashtag #dearMoon.
10. Mr Maezawa will not land on the moon, but will travel on a path around it. The BFR spaceship will then go back to Earth.
11. SpaceX have now finished the final design for the rocket, after several updates. Musk said that the spaceship will cost about US\$5 billion to make.
12. Two other billionaires - Amazon's Jeff Bezos and Virgin Group's Richard Branson also have space tourism projects.
13. They plan to take people on short trips into space where they will feel what it is like to weigh nothing, and get an amazing view of Earth.
14. It's not clear though when space tourism might become available for "everyday people."

Sources: BBC News, CNN, WIRED Magazine





**Match the following words with their correct definition:**

- |                    |  |
|--------------------|--|
| 1. a spaceship     | a. a person who starts their own business  |
| 2. an entrepreneur | b. a special path on which aircraft take off and land  |
| 3. a celebrity     | c. a vehicle that travels in space   |
| 4. a runway        | d. produced or designed for as many people as possible, not only for a few very rich customers |
| 5. mass market     | e. someone who is famous, especially in the entertainment business                             |
| 6. aviation        | f. something that encourages you to do something   |
| 7. an incentive    | g. the activity/industry of designing, producing or flying aircraft                            |
| 8. impact          | h. the effect that something has   |





**Match the names of the planets to their descriptions.**

- |            |  |
|------------|--|
| 1. Mercury | a. the furthest planet from the Sun        |
| 2. Venus   | b. the largest planet in the Solar System  |
| 3. Earth   | c. the only planet where we live           |
| 4. Mars    | d. the planet with the coldest atmosphere  |
| 5. Jupiter | e. the red planet                          |
| 6. Saturn  | f. the second largest planet               |
| 7. Uranus  | g. the second planet from the Sun          |
| 8. Neptune | h. the smallest planet in the Solar System |



Put the correct words into the sentences below.

astronaut

astronomer

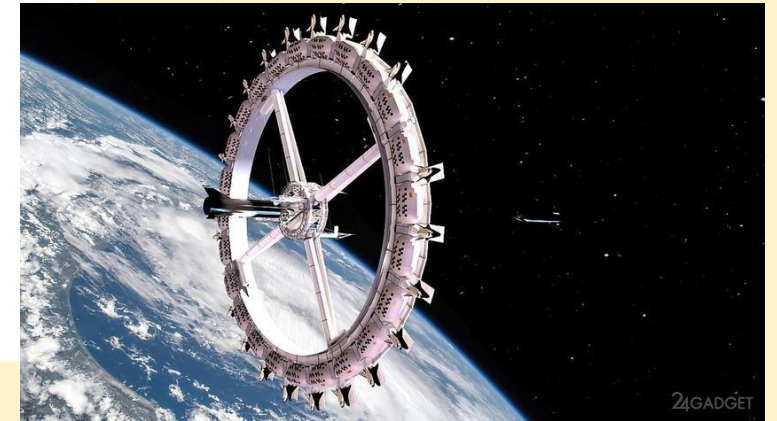
observatory

rocket

suit

telescope

1. Many people want to be an \_\_\_\_\_ when they are young, so that they can travel into space.
2. You can see many of the planets in the night sky without a \_\_\_\_\_, if you know where to look.
3. There is a very large \_\_\_\_\_ on a mountain in Hawaii. They have a lot of equipment.
4. Galileo was an \_\_\_\_\_. He discovered the four largest moons of Jupiter.
5. A \_\_\_\_\_ exploded on its launch pad in September 2016 in Florida. No one was hurt.
6. Astronauts need to wear a special \_\_\_\_\_ to protect them when they are in space.



1. Mercury
2. Venus
3. Mars
4. Jupiter
5. Saturn
6. Uranus
7. Neptune

- a. acid rain
- b. dust storms
- c. giant hurricanes
- d. long winters
- e. powerful jet stream
- f. radiation storms
- g. strong winds



Match the underlined verbs from the sentences to the definitions.

1. It is Patrick's dream to discover a planet. But not one that is in our Solar System.
  2. They are going to launch a rocket this afternoon. I hope we can see it from here.
  3. In the future, lots of people may travel into space. But at the moment it's too expensive.
  4. All planets in the Solar System orbit the Sun. It takes Earth 365 days.
  5. Many people like to watch the stars. It is a relaxing hobby.
  6. Many children would like to explore space. They dream of becoming astronauts.
- 
- a. find something, usually for the first time
  - b. go around a planet or star
  - c. go on a journey to a place that is far away
  - d. look at something for a longer time
  - e. search to learn about something
  - f. send something into space



1. What feelings do you have when you look at the night sky?
2. How have stars and the night sky been important to people in the past?
3. How can technology help in learning more about the night sky?
4. What benefits do we get from the study of space?
5. Are you a fan of science fiction set in space? Why/not?

1. Compare these two photos - what activity do they both relate to? What different aspects of this activity does each photo show?



2. Do/would you enjoy this activity? Why/not?
3. How easy is it to do this activity where you live?





# SPACE IDIOMS

**once in a blue moon**



= happens very rarely.

**(living) on another planet**



= unrealistic or to describe people who don't notice anything.

**come back down to earth**



= start to do sth boring/not fun after doing sth fun.

**under the sun**



= everything under the sun is everything that exists or is possible.

**over the moon**



= to be extremely happy about sth.

**aim for the stars**



= don't limit yourself, set your goals high.



When do you think people will visit Mars?  
What do you think they will find there?

Name as many planets as you can in English.  
Draw them in the correct position to the sun.

What is a satellite?  
What are they used for?  
How would life be different without them?

Do you think there is other life in the universe? What kind of life? What would aliens look like? Draw them.

Do you think we will ever communicate with intelligent aliens? When and how will this happen?

Have you ever looked through a telescope?  
What did you see?

Will the Earth ever be visited by aliens? What would their space ships look like?  
Draw a space ship.

Should we try to discover other planets and life forms?  
Why or why not?

Would it be a good idea to build a permanent base on the moon?  
Why or why not?

Would you like to be an astronaut?  
Explain why or why not.

Do you think people will ever take holidays in space?  
Describe how you think this will work.

How and when was the universe created?  
What was there before it existed? Discuss.

What is the speed of light?  
How is distance measured in the universe?

How big is the universe?  
How long would it take to travel to another galaxy?  
Research and discuss.

What is your favourite sci-fi movie or TV show?  
Tell the plot.

Do you think governments spend too much or too little on space exploration?  
Explain your view.

What do you think the odds are of Earth being hit by a meteor?  
Should we develop protection systems for this possibility?

Should money be spent on space programmes while there is still so much poverty on Earth?  
Explain your point of view.



















