

## UNIT 10: SPACE TRAVEL

### A. PHONETICS

**I. In these lists, put // to show speech units and ˊ or ˋ to show tones. Practice saying the lists using the intonation you have marked.**

1. You should read books about rockets comets stars and planets  
You should read books about rockets ˊ// comets ˊ// stars ˊ// and planets ˋ//
2. Her house has a living room a kitchen a toilet and two bedrooms
3. The tours start at twelve one thirty three o'clock and five thirty
4. She picked up her kids went to the supermarket cooked dinner and got the laundry
5. We bought some jeans two shirts a pair of shoes and an umbrella
6. Steve wants to go to Paris Berlin Florence and London
7. You can swim go walking visit the sights or just relax
8. I got up had a shower got dressed had breakfast and went out
9. Peter enjoys playing tennis swimming hiking and biking
10. The Universe includes living things planets stars galaxies dust clouds and light

**II. Read these short dialogues. Does the voice go up and down on the capitalized words? Draw a rising or falling arrow on them, then practice saying the dialogues.**

1. A: What is there in your BAG?  
B: There is a PURSE, a pair of GLASSES, some BOOKS, and a PENCIL.
2. A: Do you come from ENGLAND?  
B: No. I was born THERE, but I live in FRANCE.
3. A: I'm extremely sorry, but I probably lost the book you gave me.  
B: WHAT? You lost my BOOK?
4. A: What did you buy YESTERDAY?  
B: I bought a TEE-SHIRT, a SKIRT and a HANDBAG.
5. A: Does he speak GERMAN or FRENCH?  
B: He speaks FRENCH.
6. A: Do you like your new TEACHER?  
B: Of course. She's really NICE.
7. A: So you both live in BOSTON?  
B: Well, Martha DOES.
8. A: Where do you want to go on your next VACATION?  
B: I want to go to JAPAN, SOUTH KOREA, SINGAPORE, and MALAYSIA.

### B. VOCABULARY AND GRAMMAR

**I. Match the words or phrases with their definitions.**

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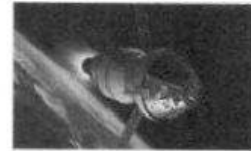
- |                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| 1. rocket            | a. a piece of clothing worn by a person who travels in space                                            |
| 2. satellite         | b. a piece of rock from outer space that hits the earth's surface                                       |
| 3. space station     | c. a zero-gravity flight                                                                                |
| 4. spaceline         | d. an optical instrument that makes far away objects look closer                                        |
| 5. spacewalk         | e. a vehicle used for travel in space                                                                   |
| 6. spacesuit         | f. a large structure in space where people can live and work                                            |
| 7. spacecraft        | g. a large cylinder-shaped object that moves very fast by forcing out burning gases                     |
| 8. meteorite         | h. an act of moving around in space outside a spacecraft                                                |
| 9. telescope         | i. a device sent into space, used for communicating by radio, television, etc. or gathering information |
| 10. parabolic flight | j. a company that carries out space flights                                                             |

**II. Complete the sentences with the words/ phrases in part I (use a plural form if necessary). Take the picture as a clue.**

- Elon Musk's SpaceX will launch U.S. astronauts to the International \_\_\_\_\_ for the first time since 2011.
- Virgin Galactic, the world's first commercial \_\_\_\_\_, was founded by Sir Richard Branson.
- Fifty years ago, a \_\_\_\_\_ fell to Earth and landed in Australia, carrying with it a rare sample from interstellar space.
- The \_\_\_\_\_ was expected to remain in service until at least 2024.
- NASA uses \_\_\_\_\_ to launch things and people into space.
- When turned on the night sky, a \_\_\_\_\_ allows you to see millions of things that are invisible to the naked eye.



7. NASA is considering sending astronauts in an Orion \_\_\_\_\_ to the surface of a near-Earth asteroid in 2025.
8. The last time astronauts did a \_\_\_\_\_ from an aerial outpost was in 1974, when Skylab was operating.
9. Astronauts train on \_\_\_\_\_ to prepare for the weightlessness experienced in space.
10. NASA's new \_\_\_\_\_ can withstand over 120°C, removes toxic gases and regulates temperature.



### III. Complete the sentences with the words from the box. Modify the words if necessary.

|           |           |           |             |              |
|-----------|-----------|-----------|-------------|--------------|
| cosmonaut | astronomy | habitable | astronauts  | microgravity |
| rinseless | mission   | altitude  | maintenance | weightless   |

1. The astronauts became \_\_\_\_\_ on going into orbit round the earth.
2. When \_\_\_\_\_ go to space, they float due to the lack of gravity.
3. NASA intends to land its first manned \_\_\_\_\_ on Mars in 10 years' time.
4. After the Earth, Mars is the most \_\_\_\_\_ planet in our solar system.
5. \_\_\_\_\_ is the condition in which people or objects appear to be weightless.
6. The plane is now flying at a(n) \_\_\_\_\_ of 30,000 feet.
7. On April 12, 1961, Soviet \_\_\_\_\_ Yuri Alekseyevich Gagarin became the first human being to travel into space.
8. The space station requires routine \_\_\_\_\_ and safety checks on most days.
9. \_\_\_\_\_ is a natural science that studies celestial objects and phenomena.
10. Astronauts wash their hair with a \_\_\_\_\_ shampoo so they don't need to get their hair wet.

### IV. Complete the sentences with the correct tense or form of the verbs in the box.

|       |            |         |         |        |
|-------|------------|---------|---------|--------|
| orbit | experience | launch  | land    | attach |
| float | cooperate  | descend | recount | train  |

1. Sputnik 1, the first artificial satellite, \_\_\_\_\_ into Earth orbit on 4 October 1957.
2. NASA prepares its astronauts for a microgravity environment by \_\_\_\_\_ them on parabolic flights.



3. A mysterious spacecraft \_\_\_\_\_ the Earth for the past 720 days.
4. It took less than an hour before the plane began \_\_\_\_\_ down to a small town.
5. Astronauts \_\_\_\_\_ around in space because there is no gravity in space.
6. Parabolic flights allow passengers \_\_\_\_\_ weightlessness without actually going to space.
7. Visiting astronauts can sleep anywhere in the ISS so long as they \_\_\_\_\_ themselves to something.
8. The former NASA astronaut \_\_\_\_\_ his experiences living and working aboard the International Space Station.
9. NASA's Curiosity rover \_\_\_\_\_ on Mars in 2012 with a mission to find out if Mars is suitable for life.
10. Nearly any technical problem can be solved when crew and ground controllers \_\_\_\_\_.

**V. Choose the correct idioms to complete the sentences.**

- Joe was \_\_\_\_\_ when he got a job with his dream company.  
a. out of this world                      b. over the moon  
c. once in a blue moon                  d. many moons ago
- \_\_\_\_\_ I go to the cinema, only when there's a film I really, really want to see.  
a. Over the moon                          b. Out of this world  
c. Once in a blue moon                  d. Many moons ago
- That's the coolest thing I've ever seen. It's really \_\_\_\_\_.  
a. out of this world      b. calling it a day      c. the sky's the limit      d. once in a blue moon
- He asked his dad to buy him a yacht as a birthday present. I think he was \_\_\_\_\_.  
a. once in a blue moon                  b. out of this world  
c. promising the moon                  d. asking for the moon
- You've heard the saying, "\_\_\_\_\_" It's meant to indicate that you can achieve anything if you want.  
a. Reach for the stars.                  b. Come back down to earth.  
c. The sky's the limit.                  d. Everything under the sun.
- He's living \_\_\_\_\_ if he thinks he's going to get £5000 for his old car.  
a. out of this world      b. on another planet      c. under the sun      d. over the moon
- She's very intelligent and knowledgeable. She can talk about everything \_\_\_\_\_.  
a. over the moon              b. out of this world      c. on another planet      d. under the sun
- I really \_\_\_\_\_ returning to work after my two-week holiday in Spain.  
a. asked for the moon                  b. lived on another planet  
c. came back down to earth              d. was once in a blue moon
- We went to Paris \_\_\_\_\_, I'm sure it has changed a lot since then.  
a. many moons ago                      b. once in a blue moon  
c. over the moon                          d. under the sun

10. I doubt she'll actually become a famous actress - she just has \_\_\_\_\_.  
a. out of this world      b. the sky's the limit      c. on another planet      d. stars in her eyes

**VI. Underline the correct form.**

1. When Anne *opened* / *had opened* the door, she realized that somebody *broke* / *had broken* into.
2. He couldn't make a sandwich because *he forgot* / *had forgotten* to buy bread.
3. Clyde Tombaugh *discovered* / *had discovered* the planet Pluto in 1930.
4. By the time Julia *left* / *had left* the shop, she *spent* / *had spent* all her money on clothes.
5. I *didn't want* / *hadn't wanted* to see that film because I *saw* / *had seen* it twice.
6. Philip *tidied* / *had tidied* his bedroom before he *left* / *had left* for work.
7. When he *ainted* / *had ainted* the kitchen he *decided* / *had decided* to have a rest.
8. Alfred *had worked* / *worked* in a bank for five years before he was sent to Rome.
9. He doubted that he *saw* / *had seen* her somewhere before.
10. After he *had* / *had had* a good night's sleep, he *felt* / *had felt* much better.
11. In 1998, Glenn *attracted* / *had attracted* media attention when he *returned* / *had returned* to space aboard the space shuttle Discovery.
12. He *touched down* / *had touched down* in Kazakhstan at 11:26 pm, having completed 340 days in space.
13. *Did James already cooked* / *Had James already cooked* breakfast when you got up?
14. After arriving home, I *realized* / *had realised* I *didn't buy* / *hadn't bought* any milk.
15. It wasn't easy when I *lived* / *had lived* on the International Space Station for nearly a year.

**VII. Complete the sentences with the past simple, past progressive or past perfect form of the verbs in brackets.**

1. Matt \_\_\_\_\_ (live) in Greece for two years before he \_\_\_\_\_ (move) to Italy.
2. The patient \_\_\_\_\_ (die) while the doctors \_\_\_\_\_ (perform) the operation.
3. I \_\_\_\_\_ (be) happy to see Matha because we \_\_\_\_\_ (not see) each other since last Christmas.
4. Mary \_\_\_\_\_ (clean) the windscreen when she \_\_\_\_\_ (notice) a crack in the glass.
5. By the time Alex \_\_\_\_\_ (finish) his studies, he \_\_\_\_\_ (be) in London for over eight years.
6. As I \_\_\_\_\_ (cross) the street, I \_\_\_\_\_ (catch) sight of an old friend of mine in a restaurant.
7. The hotel was full, so I \_\_\_\_\_ (be) glad that we \_\_\_\_\_ (book) in advance.
8. As soon as the people \_\_\_\_\_ (hear) the trumpet blast, they \_\_\_\_\_ (shout) a loud war cry.
9. What \_\_\_\_\_ (you/read) when I \_\_\_\_\_ (interrupt) you last night?
10. I \_\_\_\_\_ (want) to help with the washing up, but Sandra \_\_\_\_\_ (already/ do) it.
11. They \_\_\_\_\_ (watch) a film in the cinema so they \_\_\_\_\_ (not realise) it \_\_\_\_\_ (snow) outside.
12. First I \_\_\_\_\_ (tidy) the flat, then I \_\_\_\_\_ (sit) down and \_\_\_\_\_ (have) a cup of coffee.
13. \_\_\_\_\_ (you/ ever/ visit) London when you \_\_\_\_\_ (live) in England?

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14. The neighbors \_\_\_\_\_ (call) the fire department when they \_\_\_\_\_ (see) the old house go up in flames.
15. Nobody \_\_\_\_\_ (come) to the meeting because Angela \_\_\_\_\_ (forget) to tell them about it.

**VIII. Fill in the blank with/ without a relative pronoun.**

1. Can you give me back the money \_\_\_\_\_ I lent you last month?
2. They complained about the wrong goods \_\_\_\_\_ were sent to them.
3. This is Susan \_\_\_\_\_ husband works in the sales department.
4. The advice \_\_\_\_\_ Sam gave me was quite senseless.
5. Monday is the day \_\_\_\_\_ bills have to be paid.
6. The secretary showed me the cabinet \_\_\_\_\_ important documents are filed.
7. Enter the address of the person \_\_\_\_\_ you want to forward the message to.
8. Elsa seemed like the kind of person to \_\_\_\_\_ happiness came almost naturally.
9. What is the name of the woman \_\_\_\_\_ used to read the news on Channel 9?
10. His refusal to tell her the truth is the reason \_\_\_\_\_ she is so angry with him.
11. Can you name the artist \_\_\_\_\_ famous painting is called 'The Girl with the Pearl Earring'?
12. 1969 was also the year in \_\_\_\_\_ the Venera 5 space probe landed on Venus.
13. Do you know the city \_\_\_\_\_ President Barack Obama was born?
14. Marie Curie is one of the scientists \_\_\_\_\_ I admire most.
15. Apollo 11 was the spaceflight \_\_\_\_\_ landed the first two people on the Moon.

**IX. Combine the two sentences using defining relative clauses.**

1. Can you show me the room? Meetings are held in that room.  
→ Can you \_\_\_\_\_
2. What would you do with the scholarship? You were offered it this month.  
→ What \_\_\_\_\_
3. I don't really like the woman. She is in charge of the Marketing Department.  
→ I don't \_\_\_\_\_
4. I have never met the man. He gave me a lift this morning.  
→ The man \_\_\_\_\_
5. Scientists are working with stem cells. Stem cells will revolutionize medicine.  
→ Scientists \_\_\_\_\_
6. Most of the books are still popular today. I read them as a child.  
→ Most of the books \_\_\_\_\_
7. We won't forget the day. We went to Justin Bieber's concert that day.  
→ We \_\_\_\_\_

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8. The book is about Gagarin's flight to the space. Mr. Henry gave it to me.  
→ The book \_\_\_\_\_
9. I want to introduce you to Mrs. Black. Her husband is a software engineer at Google, Inc.  
→ I want \_\_\_\_\_
10. The Nation Air and Space Museum has been renovated. We visited it last year.  
→ The Nation Air and Space Museum \_\_\_\_\_

**X. Fill in each blank with a suitable preposition.**

1. Virgin Galactic says hundreds of customers have signed \_\_\_\_\_ for a brief suborbital flight into space.
2. Most satellites observing the Earth fly \_\_\_\_\_ an altitude of 600 kilometers to 800 kilometers above ground.
3. Astronauts float \_\_\_\_\_ in space because there is no gravity in space.
4. Zero Gravity Corp, provides people \_\_\_\_\_ a once-in-a-lifetime experience of floating in microgravity \_\_\_\_\_ parabolic flights.
5. \_\_\_\_\_ April 12,1961, Yuri Gagarin became the first human to go \_\_\_\_\_ space.
6. Some meteorites are easy to overlook because they look \_\_\_\_\_ ordinary earth rocks.
7. A popular pastime while orbiting Earth is simply looking \_\_\_\_\_ the window.
8. On 31 May he carried \_\_\_\_\_ checks on the KiboJEM Robotic Manipulator System.
9. Nick was crazy \_\_\_\_\_ the universe after his visit to the Space Museum in Sweden.
10. Most people have wondered if there is life beyond Earth \_\_\_\_\_ space.

**C. SPEAKING**

**I. Write questions to complete the conversations.**

1. A: \_\_\_\_\_  
B: The first woman to be In space is Valentina Tereshkova.
2. A: \_\_\_\_\_  
B: Valentina Tereshkova was born in Maslennikovo, near Yaroslavl, Russia.
3. A: \_\_\_\_\_  
B: She was only 26 when she made her one and only space flight.
4. A: \_\_\_\_\_  
B: She was sent into space in the spacecraft Vostok 6.
5. A: \_\_\_\_\_  
B: The spacecraft was launched on June 16,1963 .
6. A: \_\_\_\_\_  
B: She orbited Earth 48 times in her space capsule, Vostok 6.
7. A: \_\_\_\_\_

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B: She was picked for the cosmonaut program because of her expertise in parachute jumping.

8. A: \_\_\_\_\_

B: Tereshkova parachuted from the Vostok 6 after re-entering the earth's atmosphere.

9. A: \_\_\_\_\_

B: She landed in the Altay region near today's Kazakhstan-Mongolia-China border.

10. A: \_\_\_\_\_

B: It took another 19 years until cosmonaut Svetlana Savitskaya became the second woman to travel into space.

## II. Put the dialogue into the correct order.

\_\_\_ Is there anything else?

\_\_\_ I see. Have you ever dreamt about becoming an astronaut?

\_\_\_ Thank you for your encouragement.

\_\_\_ No doubt. And you must pass NASA's astronaut physical examination.

\_\_\_ Cool! What are the basic requirements?

\_\_\_ Well, you need a bachelor's degree in engineering, biological science, physical science, computer science or mathematics, followed by three years of professional experience or 1,000 hours of pilot-in-command time in jet aircraft.

1 \_\_\_ What are you doing?

\_\_\_ Never mind.

\_\_\_ I always think about the day I can enjoy the beauty of the Earth from the ISS. However, I have to try a lot.

\_\_\_ Don't worry. As long as you believe in yourself, you can make your dream come true!

\_\_\_ That's too hard!

\_\_\_ I'm reading some articles about space.

\_\_\_ Yes. There are many other skills that can be an asset to selection, such as scuba diving, wilderness experience, leadership experience and facility with other languages.

\_\_\_ It's a piece of news about how to become an astronaut.

\_\_\_ What exactly are you reading?

## I. Complete the passage with words from the box.

|            |         |             |          |          |
|------------|---------|-------------|----------|----------|
| satellites | explore | exploration | orbit    | evidence |
| fly        | dreamed | take-off    | unmanned | further  |

Space (1) \_\_\_\_\_ is sending people or machines into space to visit other planets and objects in space. Mankind has (2) \_\_\_\_\_ of visiting the stars for hundreds of years, but it wasn't until 1969 that the first person walked on the Moon. Since the first person walked on the Moon, hundreds of (3) \_\_\_\_\_ have been launched into orbit around the earth, and hundreds of people have been



into space on lots of different types of spacecraft. We have also sent machines to investigate objects that are (4) \_\_\_\_\_ away in the Solar System.

Apart from the Moon, the most popular place to send (5) \_\_\_\_\_ space expeditions is to Mars. Since the year 2000, there have been 10 unmanned expeditions to Mars, including putting spacecraft into (6) \_\_\_\_\_ around Mars and landing machines called rovers to (7) \_\_\_\_\_ the surface. NASA sent the rover Curiosity to Mars in 2012 to look for (8) \_\_\_\_\_ of life. They haven't found it yet, but they are going to keep on looking!

Now private companies are starting to (9) \_\_\_\_\_ into space too. Virgin Galactic sells tickets for a short trip into space for £130,000! Passengers won't go high enough to go into orbit, but they will spend about six minutes in space. The whole trip will take two and a half hours from (10) \_\_\_\_\_ to landing.

## II. Read the passage carefully, then do the tasks.

In 2006, Anousheh Ansari became the first female space tourist when she made the trip from Russia to the International Space Station (ISS). Anousheh stayed on the ISS for eight days and kept a blog. Parts of her blog are shown here.

### Anousheh's Space Blog

#### September 25th

*Everyone wants to know: how do you take a shower in space? How do you brush your teeth? Well my friends, I must admit keeping clean in space is not easy! There is no shower with running water. Water does not 'flow' here, it 'floats' - which makes it a challenging act to clean yourself. There are wet towels, wet wipes and dry towels that are used. Now brushing your teeth in space is another joy. You cannot rinse your mouth and spit after brushing, so you end up rinsing and swallowing. Astronauts call it the 'fresh mint effect'.*

#### September 27th

*Being weightless has some wonderful advantages. You can lift a really heavy object with one hand and move it around with one finger. You can fly and float around instead of walking. You can do somersaults at any age. Everything is effortless. If you want to move forward, you slightly touch a wall with one finger and you start moving in the opposite direction. If you have left your book at the other side of the module, no problem - you ask someone close to it to send it to you. That means they pick it up and very gently push it towards you, and here it is - your book flying to you all the way from the other side.*

#### A. Decide whether the following sentences are true (T) or false (F).

1. Anousheh Ansari was the first woman to travel into space.
2. Anousheh Ansari kept an online diary while she stayed on the ISS.
3. It is not easy to take a shower in space because water does not "flow" in microgravity.
4. In space, astronauts swallow their toothpaste instead of spitting.
5. Weightlessness makes it really hard to lift heavy objects in space.
6. Anousheh Ansari felt wonderful being able to do somersaults and flying around.
7. Astronauts have to push against the inside walls of the ISS when they get around.

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