**Space Tourism**

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| **In 1969, a man walked on the Moon for the first time. After this, many****people thought that space travel would be available by the year 2000****and that we would all be space tourists. However, here we are in 2015****and space tourism is still an impossible dream for most of us. It is a****reality for only a very few, very rich, people.** |
|   |
| **How would you get to your space hotel?**In the future there may be hotels in space for all the tourists. It wouldn’t takelong for the space shuttle to get out of the Earth’s atmosphere. Then, withoutEarth’ gravity, you would become weightless. Arrival at the hotel would belike an aeroplane parking at an airport but you would leave the cabinfloating along the access tube, holding on to a cable.  |
|   |
| **Fact:** The Russian Space Agencyoffers flights on board a spacecraft tothe International Space Station (ISS), where people can stay. The ISS was built in 1998 and is so big that it can be seen from Earth. Tickets to the ISS are very limited. |   | **What would a spaceholiday be like?**Once in the hotel, you couldadmire the unique views ofEarth and space and enjoy theendless entertainment of beingweightless – and there wouldalways be the possibility of aspace-walk. |
|   |
|   | **Fact:** The firsttourist in pacewas Dennis Titoin 2001. His tripcost him around£14 million. |
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|   |
| **Who has already had a holiday in space?**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 (an online diary). 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.  |

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| **Shooting stars****Be a space tourist at home** |
| While space travel is an impossibility for most of us, you can still be a touristfrom here on Earth by spotting shooting stars!Space is full of huge and tiny pieces of rock, which burn up in a flash when theyenter the Earth’s atmosphere. The flash of burning rock is called a meteor. As itmoves through the night sky, you can see the trail it leaves behind – which iswhat we know as a shooting star.On most clear nights, you should be able to see up to 10 meteors every hour.But, at certain times of the year, many more meteors appear than usual. Whenthis happens, we call it a meteor shower. |
| **Star spotters' guide toseeing shooting stars****1.**    Find out when a meteor shower is       due and arrange to go star spotting       with an adult (they don’t have to be       an expert!).**2.**    Wear warm clothes and equip       yourself with a blanket, a pillow and       a torch.**3.**    You do NOT need a telescope or       binoculars.**4.**    Go outside and find somewhere that       is far away from town lights.**5.**    When you have found your spot, lie       down on your blanket, switch OFF       your torch and stare up at the sky.**6.**    Allow some minutes to pass. The       longer you look, the more stars you       will see as your eyes get used to the       darkness.**7.**    Wait for the shooting stars to appear! |   |

1.      Look at the introduction.

Why is space tourism *impossible* for most people?

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1 mark

2.      How would you get from the spacecraft to the space hotel?

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1 mark

3.      According to the text, what could you do on your space holiday?

Give **two** examples:

**1.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2 marks

4.      How much did the first space tourist pay to go into space?

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1 mark

5.      How can you tell that the International Space Station is very large?

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1 mark

6.      How did Anousheh’s trip into space make history?

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1 mark

7.      Look at the text box ***Who has already had a holiday in space?***

Complete the table about Anousheh’s trip into space.

|  |  |
| --- | --- |
| Where did she start her trip? |   |
| Where did she stay in space? |   |
| How long did she stay in space? |   |

2 marks

8.      Look at Anousheh’s blog entry for September 25th.

**Find** and **copy** a group of words that shows that Anousheh wrote her
blog for others to read.

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1 mark

9.      Look at Anousheh’s blog entry for September 27th.

Explain how Anousheh felt about being in space that day.

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2 marks

10.    Match the events below to the year in which they happened.



1 mark

11.    Using information from the text, tick one box in each row to show whether each statement is a **fact** or an **opinion**.

|  |  |  |
| --- | --- | --- |
|   | **Fact** | **Opinion** |
| Anousheh Ansari kept an online diary. |   |   |
| Brushing your teeth in space is a joy. |   |   |
| Being weightless is endlessly entertaining. |   |   |
| Tourists can stay on the InternationalSpace Station. |   |   |

1 mark

12.    …*in a flash*...

What does this tell you about the burning of rocks in space?

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1 mark

13.    *Find out when a meteor shower is due and arrange to go star spotting
with an adult*…

In this sentence, the word *arrange* is closest in meaning to…

|  |  |
| --- | --- |
|   | Tick **one.** |
| set out. |  |
| meet. |  |
| pack up. |  |
| plan. |  |

1 mark

14.    How does the information make it sound easy to be a star spotter?

Give **two** ways.

**1.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2 marks

15.    Tick **true** or **false** in the following table to show what you should do when
spotting shooting stars.

|  |  |  |
| --- | --- | --- |
|   | **True** | **False** |
| Take warm clothes, a blanket, a pillow and a torch. |   |   |
| Stay close to town. |   |   |
| Point your torch up to the sky. |   |   |
| You must have binoculars. |   |   |

1 mark

Mark schemes

**Q2.**

1.       **Award 1 mark** for explaining that it is impossible for most people because it costs too much, e.g.

*•      most people can’t afford it*

*•      it is too expensive.*

**1 mark**

2.      **Award 1 mark** for answers that refer to floating down the tube (holding the cable).

**1 mark**

3.**Award 1 mark** for identifying any of the following activities, up to a maximum of
**2 marks**:

**1.**      look at Earth or space / admire the view, e.g.

*•      admire unique views of Earth*

*•      look at the outside of earth*

*•      look down at Earth.*

**2.**      experience weightlessness / activities associated with floating, e.g.

*•      enjoy being weightless*

*•      enjoy the endless entertainment of being weightless.*

**3.**      space-walk, e.g.

•*do a space walk.*

**Do not accept** plausible experiences that are not derived from the text or are unconnected with space travel, e.g.

*•      take photos of the moon / see what the Moon is made from*

*•      I’d write a blog*

*•      stay in a hotel.*

**Up to 2 marks**

4**.      Award 1 mark** for (around £)14 million / (£)14m.

**1 mark**

5**.      Award 1 mark** for answers referring to the fact that it can be seen from Earth, e.g.

*•      You can see it from / on Earth.*

**1 mark**

6**.      Award 1 mark** for answers recognising that she was the first female space tourist.

*•      she was the first lady to have a holiday in space*

*•      she was the first female tourist in space.*

**Do not accept** answers that say she was the first female (into space).

**1 mark**

7.      **Award 2** marks for all **three** correct.

**Award 1** mark for **two** correct.

|  |  |
| --- | --- |
| Where did she start her trip? | *•   Russia***Do not accept** Russian ISS or Earth |
| Where did she stay in space? | *•   space station / ISS* |
| How long did she stay inspace? | *•   8 days***Do not accept** 8 |

**Up to 2 marks**

8.**Award 1 mark** for either of the following:

**1.**      *(Well) my friends*

**2.**      *Everyone wants to know*.

**Do not accept** longer quotations from the text.

**1 mark**

9.      **Award 2 marks** for answers that contain **both** an appropriate reference to Anousheh’s positive attitude, inferred from the text, **and** development in the form of a relevant quote / example(s) of activities she did in space, e.g.

•        *you can tell that she liked space because of all the fun things she wrote like floating about without any effort and lifting heavy things*[positive attitude + examples of activities]

•        *she enjoyed it because of all the wonderful advantages she kept on describing* [positive attitude + quote]

•        *she felt wonderful being able to do somersaults and flying around*[positive attitude + examples of activities].

**Award 1 mark** for identifying Anousheh’s positive attitude inferred from the text, e.g.

•      *she loved it / she felt it was wonderful.*

**Also accept** **for 1 mark** the following quotations (as they convey positive emotion), e.g.

•      *she said being weightless had some wonderful advantages*

*•      everything is effortless.*

**Do not accept** emotions that are not supported by the text, e.g. pride.

**Up to 2 marks**

10.**Award 1 mark** for all **four** pairs matched correctly.



**1 mark**

11.**Award 1 mark** for all **four** correct.

|  |  |  |
| --- | --- | --- |
|   | **Fact** | **Opinion** |
| Anousheh Ansari kept an online diary. |   |   |
| Brushing your teeth in space is a joy. |   |   |
| Being weightless is endlessly entertaining. |   |   |
| Tourists can stay on the InternationalSpace Station. |   |   |

**1 mark**

12.**Award 1 mark** for either acceptable point:

1.      the rock burns very quickly, e.g.• they burn quickly / suddenly / instantly

*•      it happens fast.*

2.      the rock burns brightly, e.g.

•*when the rock burns you get a dazzling light.*

**Do not accept** reference to speed of travel, e.g.

•      *they go / fly / travel very quickly.*

**1 mark**

13.**Award 1 mark** for the correct option ticked.

|  |  |
| --- | --- |
| set out.meet.pack up.plan. |   |

**1 mark**

14.**Award 1 mark** for reference to any of the following acceptable points, up to a maximum of **2 marks:**

**1.**      accessible location, e.g.

*•      You don’t have to travel far to do it*

*•      You don’t have to be in space (to see them)*

*•      You don’t have to leave Earth.*

**2.**      you do not need specialist equipment, e.g.

*•      You can do it with things you’ll have in the house*

*•      You don’t need a telescope or binoculars*

*•      You don’t need any expensive equipment*

*•      It sounds easy because all you need is a nice spot, a blanket, pillow and torch.*

**3.**      you don’t need an expert to show you how to do it, e.g.

*•      You just need to go with an adult, they don’t need to know anything about space.*

**Do not accept** answers that are focussed on the structure of page 6, e.g.

*•      the instructions are laid out clearly.*

**2 marks**

15.     **Award 1 mark** for all **four** correct.

|  |  |  |
| --- | --- | --- |
|   | **True** | **False** |
| Take warm clothes, a blanket, a pillow and a torch. |   |   |
| Stay close to town. |   |   |
| Point your torch up to the sky. |   |   |
| You must have binoculars. |   |   |

**1 mark**