**教学设计**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 课程基本信息 | | | | | |
| 学科 | 高中英语 | 年级 | 高一年级 | 学期 | 春季 |
| 课题 | Unit 4 Space Exploration Video Time | | | | |
| 教学目标 | | | | | |
| 1. learn about the unique features of Mars  2. figure out the sequence of events in the Mars probe mission, from launch to rover exploration.  3. appreciate the importance of Mars exploration | | | | | |
| 教学内容 | | | | | |
| 教学重点：  Know the unique features of Mars and realize the significance of Mars exploration  教学难点：  Grasp the technical aspects of Chinese Mars probe mission, and the sequence of events during the mission, especially for learners with limited prior knowledge. | | | | | |
| 教学过程 | | | | | |
| **Step1 Lead-in**  **Activity 1: Show students pictures of Mars in the solar system and encourage them to freely discuss what they know about Mars.**  T: Are we alone in the universe? What’s out there?  Can you guess which planet in the solar system is in the picture?  T: How much do you know about Mars?  **Activity 2: Display the cover image from the textbook’s video and ask students how humans explore Mars.**  T: How do people explore Mars?  **Step 2 Before you watch**  **Activity 3:Read the statements below and decide whether they are true (T) or false (F).**  1.Mars is the fourth planet from the Sun and the smallest planet in the solar system.  2.It is one of the few planets that we can see with the naked eye.  3.Like Earth, Mars has volcanoes, valleys, polar ice caps, seasons, and weather.  4.Olympus Mons, the largest volcano on Mars, is about twice as high as Mount Qomolangma.  **Step3 While you watch**  **Activity 4:Check your answers in Before You Watch**  1.Mars is the fourth planet from the Sun and the smallest planet in the solar system. F  2.It is one of the few planets that we can see with the naked eye. T  3.Like Earth, Mars has volcanoes, valleys, polar ice caps, seasons, and weather. T  4.Olympus Mons, the largest volcano on Mars, is about twice as high as Mount Qomolangma. F  **Activity 5:Put the events in the correct order**  \_2\_ The probe separates from the launch vehicle.  \_7\_\_ The lander lands on the surfaces of Mars.  \_1\_\_ The probe enters the Earth-Mars transfer orbit.  \_4\_\_ Controllers on Earth guide the probe into the orbit around Mars.  \_6\_\_ The lander discard the protective shield and the parachute.  \_3\_\_ The space-to-ground communications link is created.  \_5\_\_ The orbiter and the lander separate  \_8\_\_ The rover transmits data back to Earth and receives orders from Earth.  \_9\_\_ The rover begins to explore the surface of Mars.  **Step 4 After you watch**  **Activity 6: Brainstorming**  Why is it significant to explore the Mars despite many challenges?  How can students prepare for Mars exploration ?  **Step5 Assignment**  Search for more materials related to China’s Mars exploration program, and conduct an interview in the form of role-play with your peers between space experts and journalists. Record the interview’s content by creating a short video. | | | | | |