# Cosmic Oratory Challenges

Public Speaking And Space Science · Practice Test · 8 Questions

**1. What is the approximate time delay for a public speaker on Earth to receive a response from Mars due to the speed of light?**

A) 30 seconds
B) 3 to 22 minutes
C) 1 hour
D) 24 hours

**2. Which Apollo 11 astronaut famously spoke the words, 'That's one small step for man, one giant leap for mankind,' while standing on the lunar surface?**

A) Buzz Aldrin
B) Michael Collins
C) Neil Armstrong
D) Alan Shepard

**3. Why is it physically impossible for a public speaker to use vocalized speech to communicate with an audience on the surface of the Moon?**

A) Lack of atmosphere
B) The gravity is too low
C) Extreme cold temperatures
D) Solar radiation interference

**4. In 1977, the Voyager Golden Record was launched into space, carrying audio recordings intended for extraterrestrial life. What is the approximate distance it has traveled from Earth?**

A) 1 million km
B) 1 billion km
C) 20 billion km
D) 100 billion km

**5. What is the primary scientific reason a public speaker cannot use a traditional megaphone to amplify their voice in the vacuum of outer space?**

A) Sound requires a medium to travel
B) Megaphones melt in space
C) The vacuum creates sound distortion
D) Electronic interference from stars

**6. The 'Pale Blue Dot' speech, delivered by Carl Sagan, reflects on an iconic photograph of Earth taken by which space probe?**

A) Voyager 1
B) Hubble Telescope
C) Cassini
D) Curiosity Rover

**7. If a speaker were addressing a crowd on Venus, what atmospheric condition would make the transmission of sound significantly different than on Earth?**

A) The atmosphere is 90 times denser
B) The atmosphere is made of neon
C) There is no atmosphere
D) The wind speed is zero

**8. In orbital mechanics, what is the term for the 'public' signal delay experienced when a space station commander speaks to Mission Control?**

A) Latency
B) Echo suppression
C) Frequency shift
D) Doppler drift