

## **Bumper Holiday S'Quiz – Outer Space Oddities**

Hello fabulous Squiz Kids listeners -

And welcome to the **Kids v Adults Bumper Holiday S'Quiz on Outer Space Oddities...**

I'm Christie Kijurina...

All through the year in the Squiz Kids daily podcast, we've been bringing you the big news stories of the day - run through our kid-friendly filter - to make sure you know all you need to know about the world around you. And at the end of every week - we've tested how much you retained in the Kids v Adults Weekly News S'Quiz ...

But now, because it's the holidays, we're presenting some Bumper Kids v Adults Quizzes .. on some fun topics - to see who's smarter: kids or adults ...

Here's how this quiz works: ten questions for kids about **Outer Space Oddities** - then ten questions for adults.

Whoever answers the most correct questions wins. Easy Peasy.

You ready? Let's do this ...

BREAK

Alright kids - here are your ten questions ...

1. You might think the planet closest to the Sun would be the hottest in our Solar System — but one planet traps heat with thick clouds of gas, turning it into a

giant oven. Which planet is actually the hottest? And I'll give you a hint, it's named after the Roman goddess of love and is often the brightest object in the morning and evening sky.

2. On Earth, water falls down, but in space, without gravity pulling it, water floats around. What shape does water usually form in space?

- A. Flat puddles
- B. Long, thin streams
- C. Floating balls or blobs

3. One planet in our solar system is called the Red Planet because its surface is covered in rusty, iron-rich dust — similar to what happens when metal rusts on Earth. Which planet is it?

4. Out in space, when you get close to a black hole, gravity is so strong it can stretch objects out super long and super thin. This process is named after a long and skinny food item...What is this strange stretching effect called?

5. The event scientists think marked the beginning of our universe starts with the letters B B, shares its name with a famous TV show, and is something Young Sheldon would go on to think a lot about. What is it called?

6. If you jumped on the Moon, you'd leap much higher than on Earth. Why is the Moon's gravity weaker than Earth's? Is it:

- A. The Moon spins faster
- B. The Moon is smaller and less massive
- C. The Moon is farther from the Sun

7. Here's a true or false question...Astronauts float on the ISS because Earth's gravity doesn't reach space. Is this true or false?

8. When astronauts go on spacewalks, they can see each other but can't hear a thing unless they use radios. Why can't sound travel in space?
- A. Sound is too slow and astronauts are moving too fast
  - B. There are no air molecules to carry it
  - C. Space is too cold
9. Scientists believe most of the matter in the universe is invisible — it doesn't glow or reflect light — but they know it's there because of how it affects stars and galaxies. What is this mysterious stuff called?
- A. Black holes
  - B. Dark energy
  - C. Dark matter
10. True or false... Astronauts can be a little taller when they return from space than they were when they went up there... is this true or false?

Answers:

- 1. Venus
- 2. C. Floating balls or blobs
- 3. Mars
- 4. Spaghettification
- 5. The Big Bang
- 6. B. The Moon is smaller and less massive and gravity increases with the mass of an object... Even you have gravity... just not a lot.
- 7. False - Earth's gravity does reach space — in fact, it reaches all the way to the International Space Station. Astronauts float because the ISS and everything

inside it are constantly falling around Earth, not because gravity has disappeared.

8. B. There are no air molecules to carry it
9. C. Dark matter
10. True.. In space, gravity isn't pushing down on astronauts' bodies the way it does on Earth, and without that constant downward force, the spine stretches out, creating a little extra space between the bones in the back. Unfortunately, it doesn't last, and they go back to their original height.

How did you go kids? How many did you get right out of ten? Reckon you're going to beat the adults? Yeah - I reckon so too..

Alright adults - now it's your turn ...fire up the grey matter - here we go ...

1. Most planets spin the same way as they orbit the Sun — but one planet spins in the opposite direction, meaning the Sun would rise in the west instead of the east. Which planet spins backwards compared to most others?
  - A. Earth
  - B. Jupiter
  - C. Venus
2. True or false one..Time passes at exactly the same speed on the International Space Station as it does on Earth. Is this True or False?
3. How long did it take astronauts to travel from Earth to the Moon during the Apollo missions back in the 1960s and 70s — and how does that compare to modern Artemis missions now, is it:
  - A. A few weeks then, about a day now
  - B. About three days then, about three days now

C. Several weeks then, several weeks now

4. Which element dominates stars and galaxies, sits at atomic number 1 on the periodic table, yet rarely appears on Earth in its pure form?
5. Another true or false one...Rockets usually carry huge amounts of fresh drinking water because astronauts can't make water in space, and water is one of the heaviest parts of a launch.
6. In the 1960s, scientists detected strange background "static" in radio and TV signals that wouldn't go away, no matter where they pointed their antenna. What did scientists later realise this noise was? Was it:
  - A. Interference from nearby radio towers
  - B. Cosmic dust rubbing together in space.
  - C. Leftover radiation from the Big Bang
7. On Earth, matter usually appears as a solid, liquid, or gas. But the extreme heat of the Sun strips electrons from atoms, creating a different state altogether. What is this fourth state of matter called?
8. Several planets have moons, but one planet is the clear champion. Which planet currently has the most known moons, and roughly how many does it have? Is it:
  - A. Jupiter, more than 200
  - B. Saturn, more than 140
  - C. Uranus, about 30
9. For decades, rumours about aliens and secret spacecraft swirled around a highly restricted US military site. The government officially denied its existence until 2013, when it was finally acknowledged in declassified documents. What is this place called?

10. Light travels at about 300,000 kilometres per second. Given that the Sun is roughly 150 million kilometres from Earth, about how long does it take sunlight to reach us?
- A. About 8 seconds
  - B. About 8 minutes
  - C. About 80 minutes

Answers:

- 1. C. Venus - While most planets spin anti-clockwise, including Earth, Venus rotates clockwise so the sun would rise in the West and set in the East on Venus.
- 2. False... Time passes very slightly differently on the ISS because it is moving extremely fast around Earth and is farther from Earth's gravity. According to Einstein's theories, speed and gravity both affect time. The difference is tiny, but it's real — and it even has to be accounted for in satellite systems like GPS.
- 3. B. About three days then, about three days now - Technology has advanced, but the distance and physics haven't changed.
- 4. Hydrogen
- 5. False. Water is heavy, but astronauts recycle almost all of it in space — including water from breath, sweat, and even urine so they don't need to launch massive amounts of fresh water from Earth.
- 6. C. Leftover radiation from the Big Bang  
That static you get on your radio and untuned TV is cosmic microwave background radiation, a faint glow left over from the early universe.

7. Plasma

8. B. Saturn, more than 140

9. That top-secret military testing site in Nevada is called Area 51

10. B. About 8 minutes. So if the sun suddenly disappeared, we wouldn't know about it on Earth for about 8 minutes...

How did you go adults? How many did you get right?

Did you beat the kids? Who took the crown this week?

OK, we've given your brain cells a work out ... now time for...

>> SHOUTOUTS

And it's a very happy birthday to these Squiz Kids celebrating a birthday today and over the past week ....

Xavier from Glebe, Abby from Maitland, Jaxtyn (pron Jacks-tin) from Kensington, Meryl from Canberra, Chloe and Frankie from Forest Lake and Tommy from Sydney.

Well - that's all we have time for.

I hope you're enjoying these quizzes.

If you're hanging out for something to do over the holidays, we have a whole back catalogue of them for you to listen to. And the best bit, they're all free!

Check it all out at [squizkids.com.au](http://squizkids.com.au) ... or find it all in the Squiz Kids feed of your favourite podcasting app – and remember if you subscribe all this excellent audio content will magically appear.

And if you haven't done it yet, be sure to pop on over to the Squiz Kids website... We'd love to know your hopes and dreams for yourself, your family and the planet for 2026. Make sure to get permission from a parent or carer before leaving us a voice message because we might use your voice memo in a podcast in the New Year.

For now, though - this is Christie Kijurina signing off - and reminding you to get out there and have a most excellent day ... over and out.