Pressure Comparisons For Kids

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Question2: Which has more **Question1**: Which is higher?

pressure? A balloon popping: 0.2 atm

Air pressure at sea level: 1 atm Underwater at 10 meters deep:

2 atm

Surface pressure (on land): 1

atm

Question3: Which has more pressure on the

ground?

Question4: Which cuts better?

Elephant standing on one foot: high pressure

due to weight over small area

Same elephant lying down: lower pressure due

to large surface contact

Knife edge pressing into a fruit:

High pressure

Spoon pressed on the same

fruit: Lower pressure

Question5: Which sinks deeper?

High heels vs. flat shoes on soft ground

Question6: Which sinks more into

snow?

Person standing vs. sitting on

snow

Question7: Atmospheric pressure on your

body: ~10 tons

But why don't we feel crushed?

Question8: Which has more

pressure?

Vacuum vs. sea-level pressure

Question9: Which has more pressure?

Hydraulic car lift pressure: 150 atm

Bicycle tire pressure: 5 atm

Question10: Which is lower?

Typhoon center (low pressure):

0.9 atm

Normal air pressure: 1 atm

Question11: Which is stronger?

Human bite pressure: 160 psi (1.1 MPa) **Crocodile bite pressure:** 3,700 psi (25 MPa)

Question12: Which has less

pressure?

A vacuum cleaner suction: 0.2

atm

Space vacuum: 0 atm

Question13: Who experiences more

pressure?

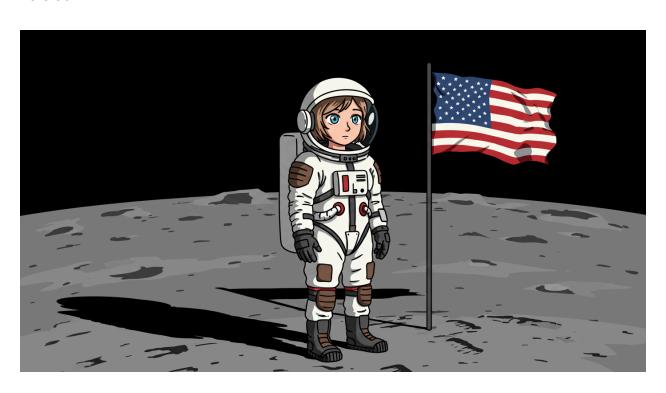
Scuba diver at 30 meters deep: 4 atm

Mountain climber at high altitude (~5000m):

0.5 atm

Question14: Which is lower?

Airplane cabin pressure: 0.8 atm Ground level pressure: 1 atm



Answers

Air pressure at sea level is higher — that's why balloons pop when overinflated!	2. Underwater pressure increases with depth — it doubles at 10 meters!
3. Standing elephant — less area = more pressure.	Knife — because pressure increases as contact area decreases.
5. High heels — smaller surface area causes greater pressure.	6. Standing — less area under feet creates more pressure.
7. Internal body pressure balances it out — cool fact!	8. Sea level — vacuum has almost no pressure.
9. Car lift — much higher pressure for lifting heavy vehicles.	10. Typhoon center — and that's what causes storm winds!
11. Crocodile — it crushes bones!	12. Outer space — it's almost completely pressureless.
13. The scuba diver — pressure increases underwater with depth.	14. Inside a plane — that's why your ears pop!