

Particles and air pressure

1. How are air particles arranged in any container?
2. How do they move around?
3. When air particles collide with the wall of a container what do they apply to that wall?
4. If there is a container with a small amount of air in it and a second container with a larger amount of air in it, what is going to be the difference in air pressure?
5. Why is there this difference?
6. If there is the same amount of air in two containers but one container is bigger than the other, which container will contain air at a higher pressure?
7. Why is there this difference in air pressure?
8. Where would you find more air particles – at the top of a high mountain or at sea level?
9. Why is the air pressure higher at sea level?

10. Why is there a difference in the number of air particles between the top of a mountain and at sea level?

11. Why do climbers who climb the highest mountains in the World need to take oxygen tanks with them when they are getting to the top of these mountains?