

## Characteristics of Gases Questions

1. What characteristics of gases make them different from liquids or solids.
2. Why are gases considered fluids?
3. What happens to gas particles when a gas is compressed?
4. How does the kinetic-molecular theory explain the pressure exerted by gases?
5. How is a gas's ability to fill a container different from that of a liquid or a solid?
6. The atmospheric pressure on top of Mount Everest is 58 kPa. What is this pressure in atm's?
7. The vapor pressure of water at 0 degrees Celsius is 4.579 mm Hg. What is this pressure in kilopascals?
8. How does the kinetic-molecular theory explain why atmospheric pressure is greater at lower altitudes than at higher altitudes?
9. Molecules of hydrogen gas escape from Earth, but molecules of oxygen and nitrogen are held to the surface. Why do you think this is?