

**PHYSICAL SCIENCE**  
**CLASS - X**

---

**Chapter : Behaviour of Gases**

**1. Why temperature is essential while mentioning the volume of a gas?**

**Ans.** The volume of given mass of a gas depends on both pressure and temperature of gas. The volume of the gas changes with the variation of pressure or temperature or with both. So, pressure and temperature must be essential while mentioning the volume of a gas.

**2. Between Kelvin scale and Celsius scale of temperature which is more fundamental and why?**

**Ans.** Kelvin scale of temperature is more fundamental.

Because – The zero value of Celsius scale depends on the physical property of a material (melting point of pure ice or freezing point of pure water), whereas the zero value of Kelvin scale is the lowest possible temperature of the Universe. It does not depend on any material. So, it is more fundamental.

