

PHYSICS ASSIGNMENT

Theory Questions

- Explain the **difference between temperature and heat** using practical examples.
- Describe how a **liquid-in-glass thermometer** works.
- With the aid of diagrams, explain the **three temperature scales** and how they are related.
- A thermometer reads **30°C**. Convert this value to **Fahrenheit and Kelvin**.
- Explain why **alcohol** is sometimes used instead of mercury in thermometers.
- State and explain **three factors that affect the sensitivity of a thermometer**.
- Discuss the importance of **temperature measurement** in two of the following fields:
 - Medicine

- Agriculture
- Weather forecasting
- Food preservation
- Explain what happens to the **particles of a substance** when its temperature increases.
- Describe an experiment to show that **temperature affects the volume of a gas**.
- Explain why the **Kelvin scale** is called the *absolute scale of temperature*.

