



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Physical Science**

**Class: 8**

**Date: 22.02.21**

**Duration: 40 min**

**Worksheet 12**

**Full Marks: 15**

## HEAT/ THERMAL EXPANSION OF SOLIDS

**Choose the Correct options:**

- Space between molecules of a substance is called  
Ans (a)Intermolecular spaces (b)Intermolecular void (c)Vacuum (d) Interstitial cells
- Expansion of a solid is of the following types  
Ans (a)Linear (b)Superficial (c)Cubical (d) All of these
- Linear expansion can be observed in a  
Ans (a) Iron rod (b) Steel plate (c) Copper block (d) Rubber balloon
- In linear expansion, the expansion in breadth and width is  
Ans (a) Infinite (b) Infinitesimal (c) Irrelevant (d) Unknown
- The linear expansion of solid depends on the following  
Ans (a)Original length (b) Material (c) Temperature Change (d) All of these
- Which of the following expands the most?  
Ans (a) Copper (b) Iron (c) Aluminium (d) Brass
- Coefficient of linear expansion depends on  
Ans (a)Original length (b) Material (c) Temperature Change (d) All of these
- The SI unit of linear expansion is  
Ans (a) per kelvin (b) per  $^{\circ}\text{C}$  (c) per  $^{\circ}\text{F}$  (d) per calorie
- Superficial expansion can be observed in a  
Ans (a) Glass rod (b) Copper plate (c) Wooden block (d) Water bubble
- In Superficial expansion, the expansion in width is  
Ans (a) Infinite (b) Infinitesimal (c) Irrelevant (d) Unknown
- The Superficial expansion of solid depends on the following  
Ans (a)Original Area (b) Material (c) Temperature Change (d) All of these
- Coefficient of Superficial expansion depends on  
Ans (a)Original Area (b) Material (c) Temperature Change (d) All of these
- The Cubical expansion of solid depends on the following  
Ans (a)Original Volume (b) Material (c) Temperature Change (d) All of these
- Coefficient of Cubical expansion depends on  
Ans (a)Original Volume (b) Material (c) Temperature Change (d) All of these
- Coefficient of linear, superficial and cubical expansion of a substance give the ratio  
Ans (a)1:2:3 (b) 3:2:1 (c) 1:3:2 (d) 2:3:1