

(c) It is used to making conveyor belts.
 4. Sericulture : The management and breeding of cocoons of silkworms for their filament to produce silk is known as sericulture.

The life span of a silkworm is of about two months. It is completed into four stages :

(a) Egg; (b) Silkworm; (c) Pupa; (d) Moth

I. 1. Scouring, sorting, spinning, dyeing, crabbing.

4
Chapter

Science
class - 7

Heat and Temperature

- A. 1. Celsius scale, Fahrenheit scale; 2. Glass, Rubber, Plastic
 B. 1. (b); 2. (b); 3. (a); 4. (d)
 C. 1. Rubber; 2. land breeze; 3. iron
 D. 1. (iii); 2. (iv); 3. (ii); 4. (v); 5. (i)
 E. 1. coldness; 2. heat; 3. thermometer; 4. Clinical; 5. cold air
 F. 1. False; 2. True; 3. True; 4. True; 5. False
 G. 1. Relation between Celsius and Fahrenheit Scale : To convert the temperature from

Celsius to Fahrenheit scales, multiply it by $\frac{9}{5}$ and add 32

$$^{\circ}\text{C} \times \frac{9}{5} + 32 = ^{\circ}\text{F}$$

$$\text{or } \frac{^{\circ}\text{C}}{100} = \frac{^{\circ}\text{F} - 32}{212 - 32} \quad [^{\circ}\text{C} \text{ has 100 equal parts and F has 32-212 equal parts}]$$

$$\text{or } \frac{^{\circ}\text{C}}{100} = \frac{^{\circ}\text{F} - 32}{180}$$

$$\frac{^{\circ}\text{C}}{5} = \frac{^{\circ}\text{F} - 32}{9} \quad \text{or } ^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

2. 10°C
 $F = \frac{9^{\circ}\text{C}}{5} + 32$

$$F = \frac{9 \times 10}{5} + 32 = \frac{90}{5} + 32 = 18 + 32 = 50$$

$$F = 50$$

50°C
 $F = \frac{9 \times 50}{5} + 32$

$$F = 90 + 32$$

$$F = 122$$

100°C
 $F = \frac{9 \times 100}{5} + 32$

$$F = 180 + 32$$

$$F = 212$$