

## Year 5 Unit 6 - Heat . Choose the correct answers.

1. Heat is a form of energy that is transferred due to the \_\_\_\_\_ in temperature.
2. A material becomes hotter when it \_\_\_\_\_ heat and becomes colder when it \_\_\_\_\_ heat.
3. \_\_\_\_\_ is the degree of hotness or coldness of a material.
4. \_\_\_\_\_ is used to measure the temperature. The standard unit for temperature is degree \_\_\_\_\_ ( $^{\circ}\text{C}$ ).
5. When the temperature of a material decreases, the level of liquid in the thermometer falls as the liquid \_\_\_\_\_.
6. When the temperature of a material increases, the level of liquid in the thermometer rises as the liquid \_\_\_\_\_.
7. The meniscus level is the \_\_\_\_\_ level of the liquid in the glass tube of a thermometer.
8. \_\_\_\_\_ point of water is  $0^{\circ}\text{C}$ .
9. \_\_\_\_\_ point of water is  $100^{\circ}\text{C}$ .
10. When hot water is left unattended, the temperature of the water will \_\_\_\_\_ until it is equal to the temperature of the surrounding and remains \_\_\_\_\_.
11. The expansion of a material occurs when materials such as solids, liquids, and gases \_\_\_\_\_ heat from the surrounding.
12. The contraction of a material occurs when materials such as solids, liquids, and gases \_\_\_\_\_ heat to the surrounding.
13. The application of the expansion or contraction of materials is important in daily life. For example:
  - the gaps between the metal connectors on the bridge allow the bridge to expand when the surrounding temperature \_\_\_\_\_. This prevents damages to the surface of the bridge when it gains heat.
  - the gaps between the connectors on the railway track allow the track to expand when the surrounding temperature increases. This prevents the track from \_\_\_\_\_ when it gains heat.
  - the electric cables are hung loosely between the electric poles to enable them to contract when the surrounding temperature decreases. This prevents the electric cables from \_\_\_\_\_ when they lose heat.