

Chapter 7.2 Thermal Expansion and Contraction

Total questions: 13

Worksheet time: 6mins

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Name

Class

Date

1.



the picture represent a

a) thermal expansion b) thermal contraction

2.



the picture represents a

a) thermal expansion b) thermal contraction

3. The air inside the balloon heats up and expands, the balloon rises. This is an effect of

- a) thermal expansion
- b) thermal contraction
- c) thermal radiation
- d) thermal conduction

4. The air inside the balloon cools and contracts, the balloon descends. This is an effect of

- a) thermal expansion
- b) thermal contraction
- c) thermal radiation
- d) thermal conduction

5. Why do hot-air balloons rise?

- a) thermal conduction
- b) thermal convection
- c) thermal expansion
- d) thermal radiation

6. Which term describes what happens to a cold balloon when placed in a hot car?

- a) thermal conduction
- b) thermal contraction
- c) thermal expansion
- d) thermal insulation

7. What is Thermal expansion?

- a) The transfer of thermal energy between materials by the collisions of particles
- b) Is a decrease in a materials volume when temperature decreases
- c) An increase in a materials volume when temperature increases
- d) Chicken fried rice

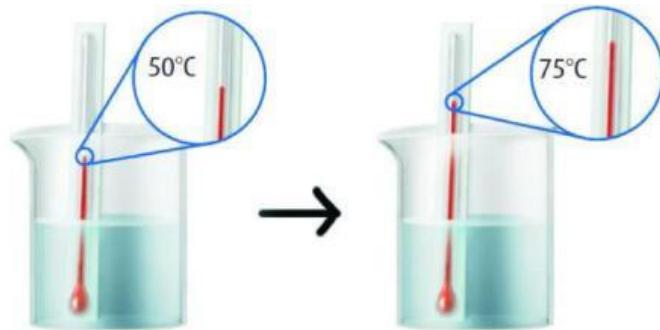
8. What is Thermal Contraction

- a) A Potato
- b) A decrease in a materials volume when its temperature decreases
- c) The movement of fluids in a cycle because of convection
- d) A material through which thermal energy does not flow easily.

9. The liquid in the thermometer rises when it is placed in the hot water because _____.

- a) it gains heat from the hot water and expands.
- b) loses heat from the hot water and contracts.
- c) the surrounding air is too warm.
- d) the liquid is boiling.

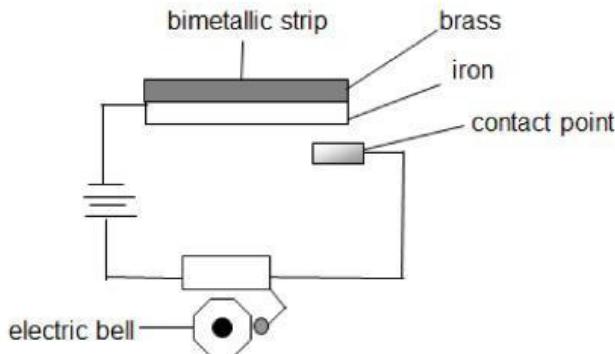
10.



What is happening to the fluid inside the thermometer in this image?

- a) thermal expansion
- b) thermal contraction
- c) vaporization
- d) boiling

11.



When temperature decreases, distance between molecules _____.

12. Expansion can be a problem in

- a) Power cable
- b) Railway tracks
- c) Fire alarm

13. Contraction can be a problem in

- a) Power cable
- b) Railway tracks
- c) Fire alarm