

Chapter 7.2 Thermal Expansion and Contraction

Total questions: 13

Worksheet time: 6mins

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1.



the picture represent a

a) thermal expansion

b) thermal contraction

2.



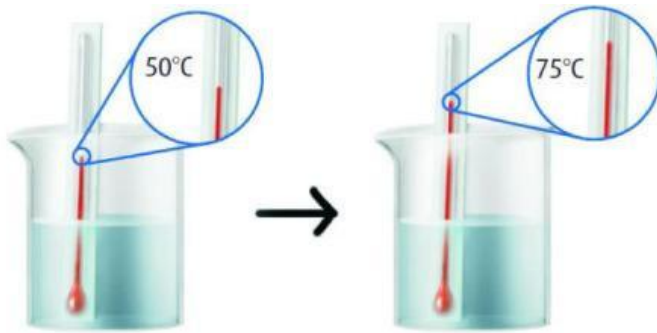
the picture represents a

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.

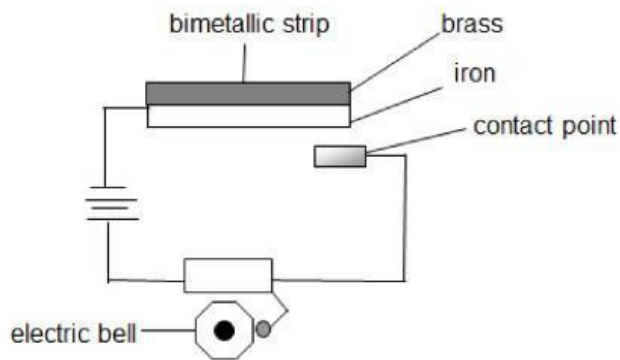
10.



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 _____.

- a) increases
- b) decreases
- c) stays the same

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