

# Science Worksheet 8

## Grade VII

### Heat and Its Effects

Q1. Define the following:

- a. Temperature   b. Sea Breeze   c. Conduction   d. Heat energy   e. Radiation

Q2. Answer the following:

- a. What is clinical thermometer?  
b. Name the liquid used in thermometer.  
c. What is the range of this thermometer?

Q3. Why is mercury used in thermometer?

Q4. Why cannot we use laboratory thermometer to measure our body temperature?

Q5. Fill in the blank:

- a. \_\_\_\_\_ is the fastest mode of heat transfer in solid.  
b. The primary mode of heat transfer in liquids is \_\_\_\_\_  
c. The mode of heat transfer that does not require a medium is \_\_\_\_\_  
d. Solids transfer heat by \_\_\_\_\_

Q6. Give reason:

- a. Birds fluff out their feathers in winter.  
b. Ben was detected with  $104^{\circ}$  fever. Find this temperature on Celsius and kelvin scale.  
c. The cold drink bottles are not filled up to the brim in the factories.  
d. The railway tracks have gap between them.  
e. We should not pump the tyres with the maximum pressure in summers.

Q7. Gallium is a metal that can melt in your hand at  $302.93\text{K}$ . What is the temperature in  $^{\circ}\text{C}$ ?

Q8. The average surface temperature on Mars is  $-63^{\circ}\text{C}$ . What is the temperature in  $^{\circ}\text{F}$ ?

Q9. What kind of cloths should we wear in summer and winter? Why?

Q10. What is the difference between conduction and convection?

Q11. Identify the states of matter and compare them on the basis of-

- a. Intermolecular spaces  
b. Force of attraction  
c. Kinetic Energy

