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class - VI

Sec - D

SCHOOL NO - 7670

Activity - 14

Ball and ring experiment to show that a solid expands on heating and contracts on cooling.

Take a ~~metallic~~ metallic ring and ball. Try to pass the metal ball through the ring. The ball is able to pass through the ~~big~~ ring. Now heat the metal ball for 5-6 minutes. The hot ball is not able to pass through the ring. This shows that a solid contracts on ~~cooling~~ cooling.

Activity - 15

To show that a liquid expands on heating and contracts on cooling.

Take a test tube filled with colored water. Close the mouth of the test tube with a cork. Fit a capillary ~~glass~~ glass tube through a hole in the cork such that it is dipped in water. Some water enters the

capillary tube. Now heat the test tube by putting in a water bath. You will observe that the level of coloured water increases in the ~~cap~~ capillary tube. This shows that liquids expand on heating. On cooling the test tube, the water level in the capillary tube decreases, showing that liquids contract on cooling.