

cw-15/7/21

## Burning candle

chemical change -

Wax is the fuel that produces heat and light, carbon dioxide and water vapour.

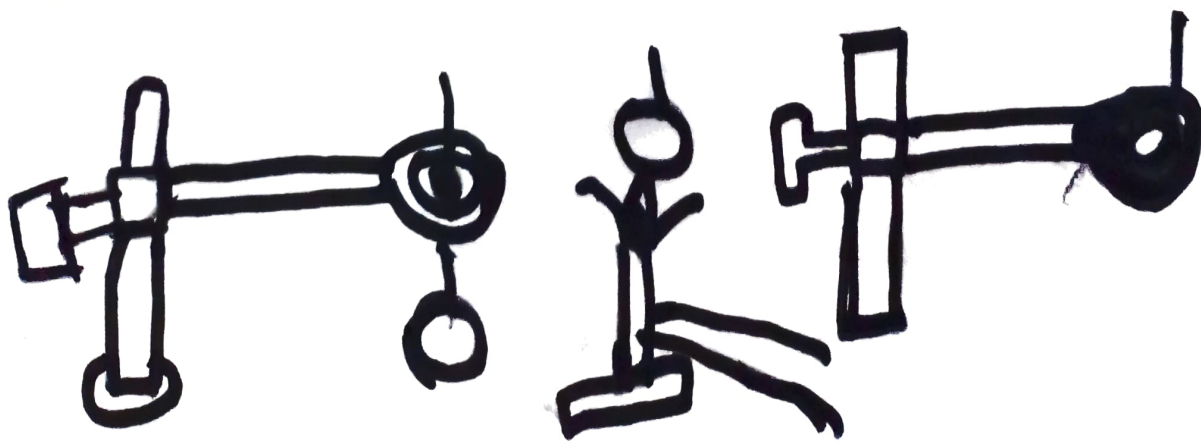
Physical change -

Wax melts when it gets hot and solidifies when it gets cold.

Hw - 15/7/21

Activity - 14

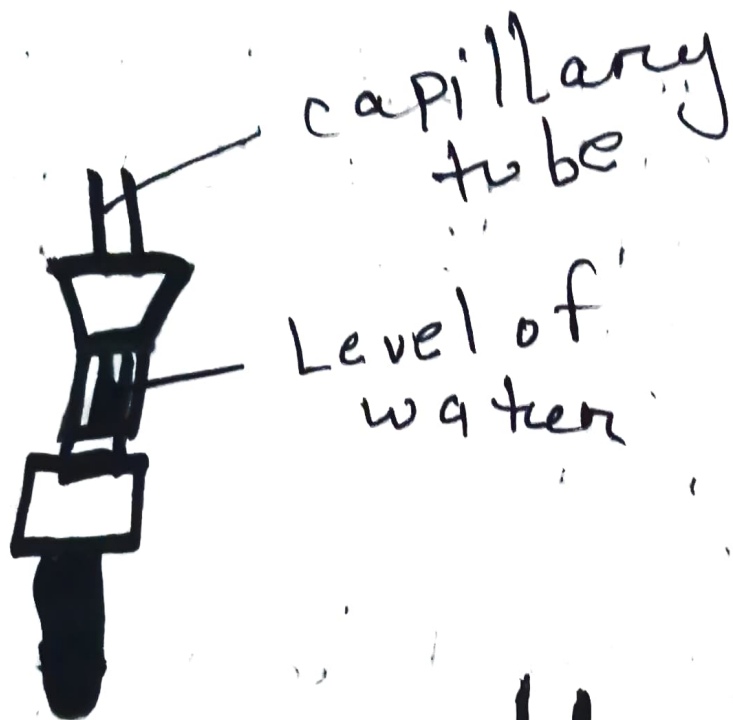
Take a metal ring and ball. Try to pass the metal ball through the ring. It can pass easily. Now heat the ball for 5-6 mins.



Now you can see that the ball is not passing through the ring. This proves that solids expand on heating.

### Activity 15

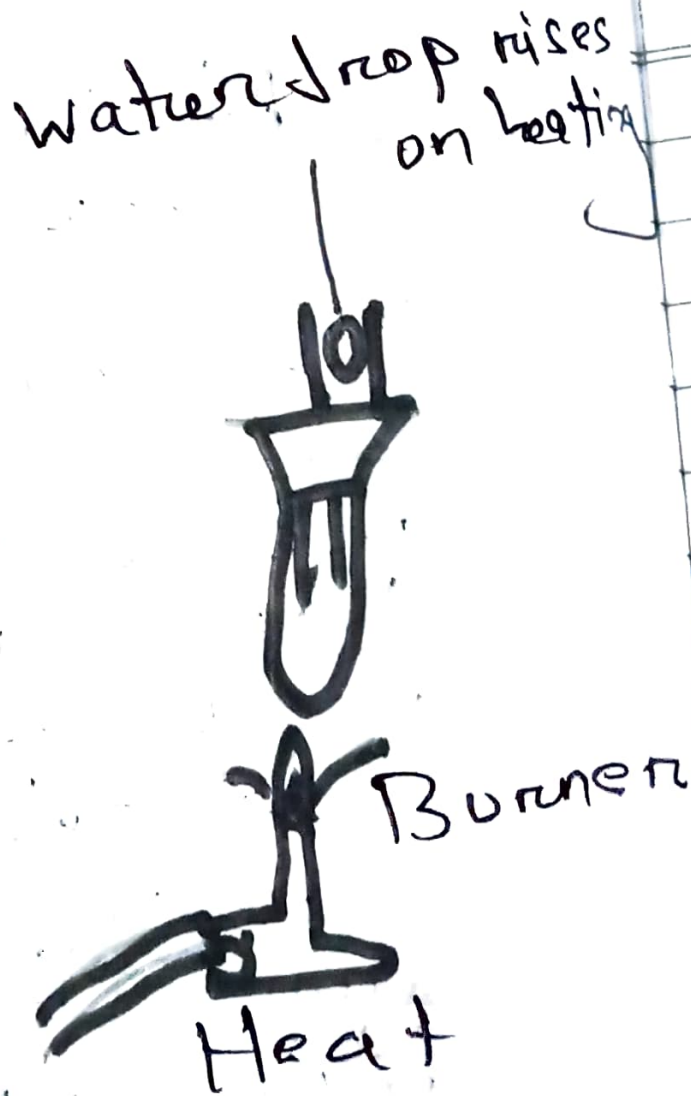
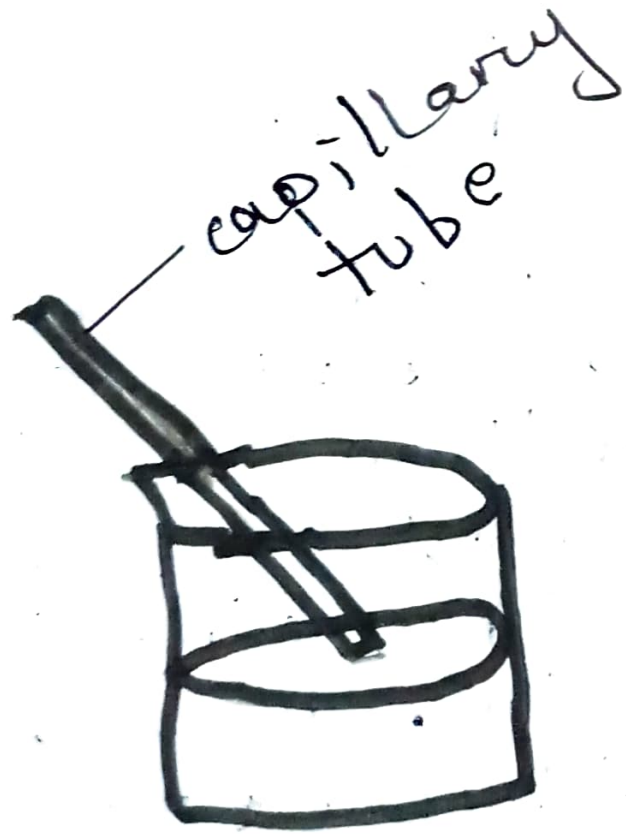
Take a test tube filled with coloured water. Close the mouth of a test tube with a cork. Fit a capillary glass tube through a hole in the cork such that it is dipped in water. Some water enters the capillary tube. Note the level of the water in capillary tube. Now heat the test tube by putting <sup>a</sup> water bath ~~is it~~. You will observe that the level of coloured water increases in the capillary tube. This shows that liquid expands on heating.



## Activity 16

### To show expansion of a gas

Take some coloured water in a beaker. Take a capillary tube and dip its one end in the capillary tube. Fit this capillary through a hole in the cork. Now fit cork in a test tube carefully. Now heat the test tube. After some time you will observe that drop of water moves up. This is because air in the test tube expands on heating which pushes the water drop up. Now cool the test tube the water drop again comes down. This shows that air contracts on cooling.



4.  
(i)  
(ii)  
An