

# Puspa Shrestha

Best Quality Resource Site for Class 11 And 12 Students  
(Based on Updated Curriculum 2077)

## Puspa Shrestha

Best Quality Resource Site for Class 11 And 12  
Students (Based on Updated Curriculum 2077)

 [puspas.com.np](https://puspas.com.np)



## PDF Collections

Notes  
Books  
Model Questions

This PDF was downloaded  
from [puspas.com.np](https://puspas.com.np)

Visit our website for more  
materials.



<https://>

[puspas.com.np](https://puspas.com.np)

Follow us on:



AR Dinesh



[puspas.com.np](https://puspas.com.np)



Puspa Shrestha

## EXPERIMENT NO 5

NAME OF EXPERIMENT: TO SEPARATE THE MIXTURE OF SAND AND CAMPHOR BY THE PROCESS OF SUBLIMATION

### APPARATUS REQUIRED

1. Porcelain basin
2. Funnel
3. Filter paper
4. Glass rod

### CHEMICALS REQUIRED

1. Mixture of sand and camphor

### THEORY

The solid or liquid substance which convert easily into vapour ~~from~~ form by little supply of heat are called volatile substance. Example: camphor, iodine, petrol, etc. The mixture of sand and camphor is separated by sublimation process. Sublimation can be defined as the process of converting solid directly into vapour and cooling back, the vapour directly into solid state. Thus obtained solid is called sublimate. Camphor is obtained as sublimate from the given mixture.

### PROCESS

1. The mixture of sand, camphor and common salt was taken in a dry porcelain basin.

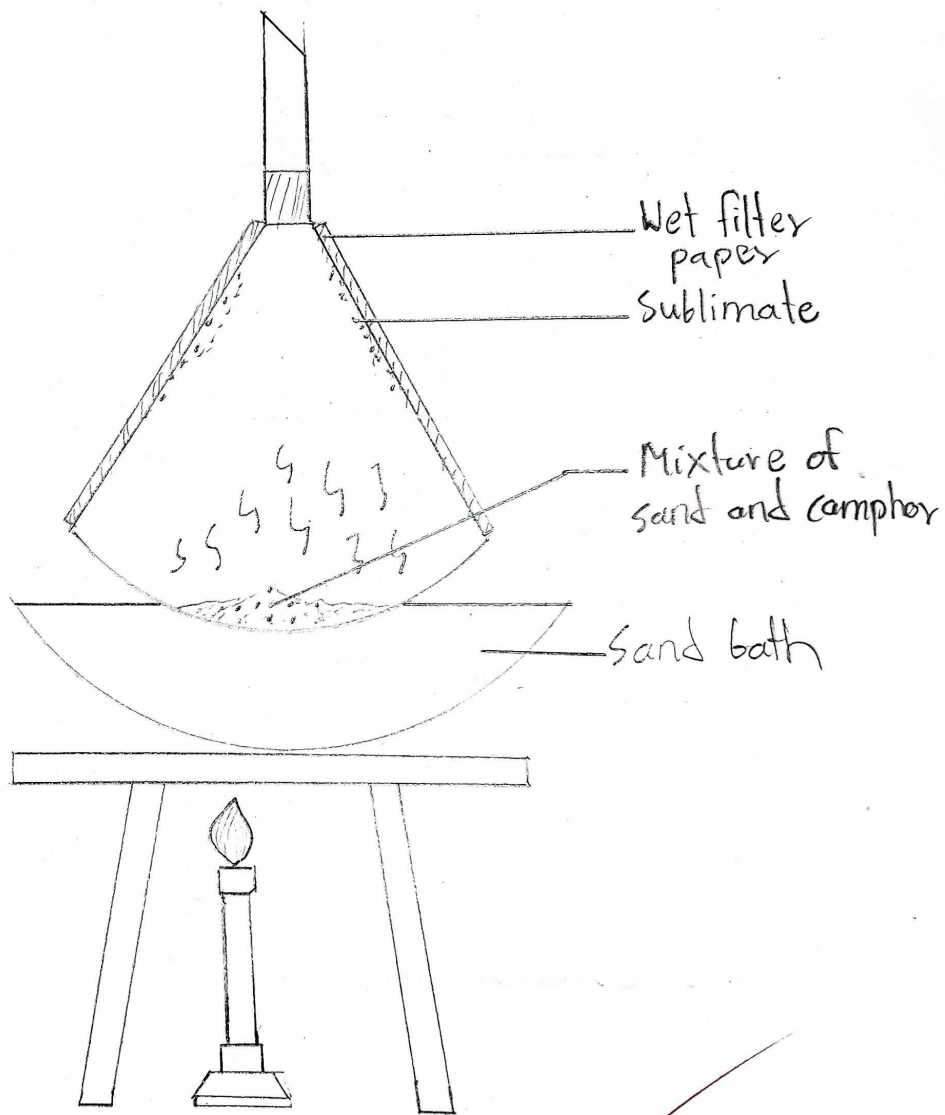


Fig. Sublimation

2. A clean and dry funnel was taken. A moist filter paper was put on the outside of the funnel wall and the stem of the funnel was closed up with a piece of filter paper from inside as shown in figure.
3. The funnel was inverted over the basin.
4. The basin with the inverted funnel was placed on a sand bath over a tripod stand.
5. The mixture was heated gently till the whole of the camphor vapours were given off which could be ascertained by smelling the mixture and by seeing the white vapours inside the funnel.
6. The funnel was removed, the mixture was stirred and smelled. No smell of camphor was noticed. So, the heating was stopped.
7. The camphor was scrapped out on a filter paper by means of a glass rod.

### OBSERVATIONS

Experiment	Observation	Inference
1. After heating the mixture, the funnel was removed. The mixture was stirred and smelled.	1. Characteristic smell of camphor was noticed.	1. Presence of camphor in the mixture.
2. After heating the mixture for sometime, the funnel was	2. No smell of camphor.	2. Absence of camphor in the mixture.

removed. The mixture was stirred and smelled.

## RESULT

Sand and camphor were separated from their mixture by the sublimation process.

## PRECAUTIONS

1. All glasswares should be handled with care.
2. The filter paper wrapped outside the funnel should be moistened respectively.
3. While moistening the filter paper, the sand should not get wetted.
4. The funnel should cover whole of the mixture in the basin.

