CH4 : Separation and purification

1. Recrystallization – main steps

**DOCUMENT 1 : Recrystallization video**

MIT Open Course Ware : Recrystallization

<https://ocw.mit.edu/resources/res-5-0001-digital-lab-techniques-manual-spring-2007/videos/>



### Part 1 : DISSOLUTION OF SAMPLE, DECOLORATION AND HOT FILTRATION

* Using a video:

Watch video “Recrystallization” from the MIT online learning course. (**Start at 4min40s end 9min55s)**

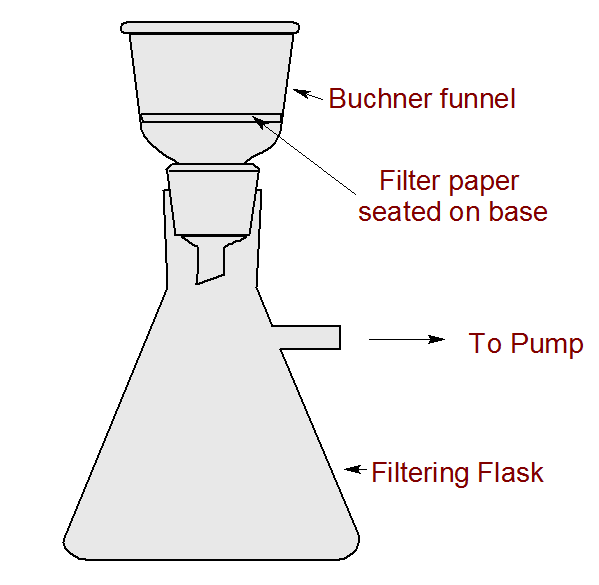
**Rephrase the main steps and explain:**

* Acquiring vocabulary: filling in the blanks

|  |  |
| --- | --- |
| **English** | **French** |
|  | Grains de pierre ponce |
| To clamp |  |
| To tip over |  |
|  | Une impureté |
| Activated charcoal |  |
| To absorb |  |
| To swirl |  |
|  | Entonnoir |
| Filter paper |  |
|  | Un montage de filtration sous vide |
| The mother liquor |  |

* Labelling the document: the vacuum filtration setup

Using the vocabulary help, label the following document:



### Part 2 : COOLING, CRYSTALLIZATION

* Using a video:

Watch video “Recrystallization” from the MIT online learning course. (**Start at 10min end 12min50s)**

What is the objective in this lab experiment?

* Acquiring vocabulary: filling in the blanks

|  |  |
| --- | --- |
| **English** | **French** |
| Crystal growth |  |
|  | Une astuce pour déclencher le procédé |
|  | Amorcer |
|  | Tremper un barreau en verre |
| To drive to completion |  |
| To scrape | Gratter |
| Weighing dish |  |
| RT : room temperature |  |
| An oven |  |
| A dessicator |  |

* Using a document:



[www.wikimediacommons.org](http://www.wikimediacommons.org)

What happens in the above document? Present the results using the given vocabulary.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Activity summary

What you must remember :

* vocabulary associated with recrystallization
* the main steps of recrystallization

Skills linked to the curriculum :

|  |  |
| --- | --- |
| **Compétences** | **Capacités à maitriser** |
| * APP | |  | | --- | | * Connaître le vocabulaire lié à la recristallisation | |
| * ANA * COM | * présenter une cristallisation |