TALKING about DRUG MAKING on FM: *How pills are made*

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GOALS

- SPEAKING to each other, to a group
- UNDERSTANDING each other, a video
- DESCRIBING a process (How? What for?)
- CHECKING OUT tools that will help you prepare for your talks

Do you know these plants?











VOCABULARY

• <u>QUIZLET.LIVE</u>

How many plant names do you know? Have you got a lot of vocabulary to talk about plants?

- Howjsay.com
- <u>https://www.acapela-group.com/fr/</u>
- Online dictionaries

- DANDELION
- CHAMOMILE (or CAMOMILE)
- RHIZOME
- PUNGENT
- HERBAL
- SPINACH

- MOIST
- SAGE
- LAVENDER
- WOUND (as in skin wound)
- ECHINACEA
- AROMATIC

- FRAGRANT
- THYME
- ANTISEPTIC
- FERN
- CULINARY
- ANTIBIOTIC

Making Pills

English for Pharmacy M2 S1 Analytical Chemistry for Natural Products and Drugs

1) What do you expect to see in the video? Watch it once to check your predictions.

a press	plastic tubes	a tray	grooves
discs	pills , tablets	gelatin casing	nozzles
bottles	stampers	a shoot	a coating unit
capsules	dryer	an interface	a counter
aluminum	foil sheet	a drum	a die

Procedure

2) What different stages are there? They are mentioned below; put them back in their chronological order (as mentioned in video).

Quality testing ____ Bottle filling ___ Drying ___ Grinding process ___ Coating ___ Moulding ___

Now match each stage/item with its purpose/timing or main apparatus:

- **Quality testing** to prevent pills from crumbling
- **Interface** to mix the active ingredient with a binding agent
- **Moulding** after grinding and before transforming the mix into a tablet
- **Drying** to program the t° of the dryer and the air flow
- **Bottle filling** it is done by a press

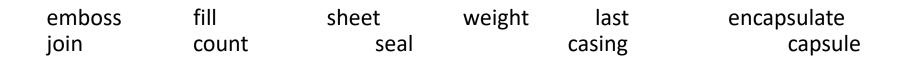
Grinding process it is facilitated by grooves

Coating the pills' hardness is checked

More details

- What is the solution made of?
- Are the pills sprayed in motion/on a tray?
- Is the solution sprayed as a mist/as a solid stream?
- Why?

Now, using the words below, complete the gaps in this summary of the end of the video. You may need to modify them to form correct sentences.



The spraying operation _____ 40 minutes. Before filling bottles, the pills are _____; there will be 500 in each. This plant also makes _____ where the API is _____ in a gelatin _____. When well _____ the 2 halves of the capsule are _____ together. After ejection, the capsules are positioned for the packaging process. Then the _____ of each is verified before packaging. A sheet of PVC is heat _____ forming an impression to receive capsules. Then a pre-glued aluminum foil _____ is adhered to the back side, _____ everything.

TOOLBOX

ITEM or DEVICE

WHY?

Is equipped with Is fitted with Is provided with features Intended to (+ infinitive) Designed to (+ infinitive) So as (not) to (+infinitive) Aimed at –ing For the purpose of –ing

HOW?

Facilitate/enhance/improve Increase/decrease/eliminate Prevent/impede/stop Provide Modify/change/alter Safeguard/protect Safeguard/protect against ensure

ALLOWPERMITENABLENever followed directly by an infinitive

Language work

DESCRIBING PHARMACEUTICAL EQUIPMENT

Using the toolbox on the screen, complete the sentences below:

The dryer is	to remove all moisture from the mix.				
It is	with an interface at programming the temperature.				
The press		molds made of stainless steel.			
It is also powder	with s make t	with stampers that make the pills.			
An apparatus is hardness.		with jaws that crush the pill	verify its		
The machine is	with a coating unit that can hold 350 pounds of pills.				
Coating is	ensuring that pills do not crumble. That coating unit plastic tubes to spray the solution onto the pills				
in motion.		00 0p. 0.)			
	with a d tion in the form of a r	lrum that tumbles the pills and also mist.	nozzles		
That process	the pills from sticking to each other.				
Grooves	proper filling.				

Homework

Language work (vocabulary for describing processes) on FM

10 minutes to elicit as many answers as you can (use a scenario, several questions)

Australia	oil	John F Kennedy	To avoid sticking
It hurts !	generics	deadly	smooth
A stomachache	coating	I would die	OTC drugs
A prescription	A batch	It boils	I feel nervous
A hamburger	gloves	Help !	1945

10 minutes to elicit as many answers as you can (use a scenario, several questions)

A patent	They become drug-resistant	sour	Next year
Last month	It does not hurt	bitter	Life-threatening
Eye drops	A syringe	Dermatologists	Zyka
The FDA	Bless you !	They have no side effects	American
Frankenstein	regulations	safe	irregular