## PILL MAKING

1) Tick what you expect to see in the video, and then watch it once to check your predictions.

A press √ plastic tubes  $\sqrt{a \text{ tray}}$ grooves √ discs √ pills, tablets gelatin casing √ nozzles√ emboutd bottles √ stampers√ a shoot √ a coating unit  $\sqrt{\phantom{a}}$ a counter √ capsules√ dryer √ an interface √ a drum √ aluminum foil sheet a die

a press: machine for moulding pills

a tray: to carry samples (food etc) grooves: as in vinyl records gelatin casing: to encapsulate medicine stampers: to form tablets and pills a shoot: tube sorting out product interface: electronic programming a drum: to tumble pills for sticking prevention

Now label the pictures below: interface



stampers/die grooves punches/stampers

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

Quality testing \_4\_\_ Grinding process \_\_1\_

Bottle filling \_\_6 Coating \_\_5\_

Drying \_2\_ Moulding \_\_3\_

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

Quality testing to prevent pills from crumbling (coating)

Interface to mix the active ingredient with a binding agent (grinding

process)

Moulding After grinding and before transforming the mix into a tablet

(drying)

Drying to program the t° of the dryer and the air flow (interface)

Bottle filling It is done by a press (moulding)

Grinding process It is facilitated by grooves (bottle filling)

- 4) More details:
  - a) What is the solution made of? Water and coloring
  - b) Are the pills sprayed *in motion*/*on a tray?* ( circle the correct answer)
  - c) Is the solution sprayed *as a mist/as a solid stream?* (circle the correct answer)
  - d) Why?
- 5) Now, using the words from the box below, complete the gaps in this summary of the end of the video. You may need to modify them to form correct sentences.

count		sneet weight		encapsulate cansule	join			
count	Jean	Weight	casing	сарзате				
The sprayi	ng operati	onlasts	40 minute	s. Before filling bott	tles, the pills are			
				his plant also makes				
caps	ules	_ where the API	isencaps	ulated	in a gelatin			
ca	ising	When we	llfilled	the 2 halves of	of the capsule are			
•		_	•	apsules are position				
packaging process. Then theweight of each is verified before packaging.								
A sheet of PVC is heatembossed forming an impression to receive								
capsules. Then a pre-glued aluminum foilsheet is adhered to the back								
side,	sealing	g eve	erything.					
Language	···oul· l	DECCDIDING DII	ADMACEUTICA	I EQUIDMENT				
Language	WOLK	DESCRIBING PH	ARMACEUTICA	IL EQUIPMENT				
Using the toolbox on the screen, complete the sentences below (using different verbs								
each time)		the sercen, com	piete the sente	nees below (using u	merene verbs			
caen anne,	•							
The drver	is desian	ed/intended	to remove all n	noisture from the m	ix.			
It is _equipped/fitted/provided with an interface _aimedat programming the								
temperatu	. ,,	, i			O			
The press	features_	molds made o	of stainless stee	el.				
It is alsoequipped with stampers thatare intended to crush the								
powders	so as to	_ make the pills	S					
An apparatus isfitted with jaws that crush the pillin order to verify its								
hardnesss.								
_	howder _so as to make the pills. An apparatus isfitted with jaws that crush the pillin order to verify its nardnesss. The machine isprovided with a coating unit that can hold 350 pounds of pills. Coating isaimed at ensuring that pills do not crumble. That coating unitfeatures plastic tubesdesigned to spray the solution onto the pills in							
features	plastic	c tubes <i>desig</i>	ned to spr	ay the solution onto	the pills in			
motion.								
				es the pills and also	features			
nozzles that spray the solution in the form of a mist.								
That processprevents the pills from sticking to each other.								
Grooves	ensure	pror	oer filling.					