

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	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

Now label the pictures below:



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

Quality testing ___

Grinding process ___

Bottle filling __

Coating ___

Drying ___

Moulding ___

3) Now match each stage 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

4) More details:

a) What is the solution made of?

- 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.

emboss	fill	sheet	weight	last	encapsulate
join	count	seal	casing	capsule	

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.

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 _____ with stampers that _____ to crush the powder _____ make the pills.
 An apparatus is _____ with jaws that crush the pill _____ verify its hardness.
 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.
 It is also _____ with a drum that tumbles the pills and also _____ nozzles that spray the solution in the form of a mist.
 That process _____ the pills from sticking to each other.
 Grooves _____ proper filling.