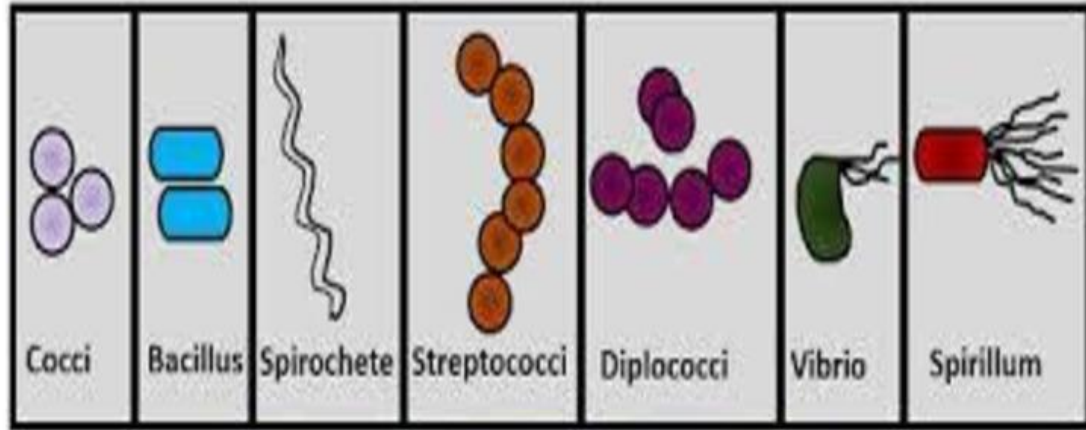


## ANTIBIOTICS

**Task 1.** Fill in the table with the names of bacteria from the box.

Bacillus, coccus, diplococci, staphylococci, spirillum, spirochete, streptococci, vibrio

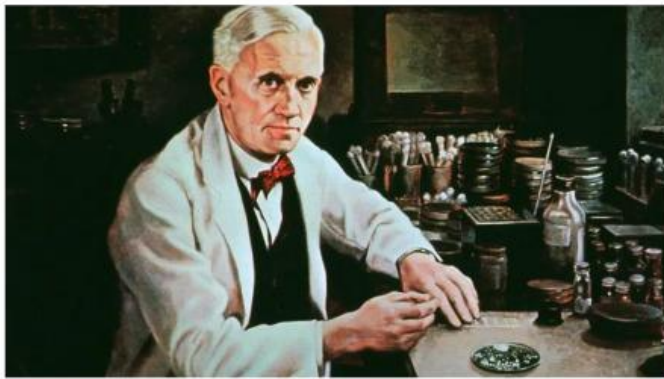


**Different forms of bacteria**

1.	A. bacteria that occur in clusters
2.	B. wavy shaped bacterium
3.	C. corkscrew shaped bacterium
4.	D. bacteria that occur in chains
5.	E. coma shaped bacteria
6.	F. bacteria that occur in pairs
7.	G. spherical bacterium
8.	H. rod shaped bacterium

*Watch the video “The accident that changed the world” and complete the tasks that follow.*

<https://www.youtube.com/watch?v=CNbnLgetqHs>



**Task 2. The sentences below summarize the main events from the video. As you watch, number them from 1 to 7 in the correct chronological order.**

Events:

- Bacteria develop resistance to penicillin due to its widespread use.
- Fleming returns from vacation and notices a mold surrounded by a bacteria-free zone.
- Penicillin is mass-produced during WWII, becoming widely available to the public.
- Some patients are wrongly labeled as allergic, often due to a rash during a childhood illness.
- A mold spore accidentally contaminates a Petri dish in Fleming's lab.
- For about a decade, the discovery does not lead to any medical treatments.
- Fleming studies the mold and identifies the bacteria-killing substance.

**Task 3. Decide if the following statements are TRUE or FALSE.**

1.	Penicillin kills bacteria by attacking their DNA.	T / F
2.	Human cells are safe from penicillin because they lack cell walls.	T / F
3.	Alexander Fleming's discovery of penicillin was the result of a planned experiment.	T / F
4.	Penicillin was mass-produced and used as a medicine almost immediately after its discovery in 1928.	T / F

5.	The drug works by preventing the bacterial cell wall from repairing itself.	T / F
6.	Antibiotic resistance in bacteria only began to appear after the year 2000.	T / F
7.	Over 90% of supposed penicillin allergies are misdiagnosed.	T / F
8.	A childhood rash that appears while taking penicillin is most likely caused by an allergic reaction to the drug itself.	T / F
9.	A genuine penicillin allergy is a permanent, lifelong condition.	T / F

### Vocabulary & Language Focus

#### Task 4. Match the words / phrases to their definitions.

Word / Phrase		Definition	
1.	mold spores	A	releasing a substance, especially as part of a natural process
2.	to germinate	B	a structural network in bacterial cell walls made of sugars and amino acids
3.	a Petri dish	C	causing death or capable of causing death
4.	secreting	D	tiny reproductive cells of fungi that can grow into new mold colonies
5.	to dub	E	a person or thing responsible for a problem or negative event
6.	peptidoglycan mesh	F	a shallow, round, transparent container used to grow microorganisms
7.	lethal	G	to give something or someone a name or title
8.	culprit	H	to begin to grow or develop, especially from a spore or seed

#### Task 5. Complete the sentences below using the correct form of the word in parentheses.

- Fleming was investigating the properties of \_\_\_\_\_ bacteria.  
(INFECT)

2. The clear zone around the mold was completely and \_\_\_\_\_ free of bacteria. (**EXPECT**)
3. The discovery of penicillin started a medical \_\_\_\_\_. (**REVOLVE**)
4. The bacterial cell wall consists of a thick \_\_\_\_\_ mesh. (**PROTECT**)
5. The new drug quickly transformed the \_\_\_\_\_ of infections. (**TREAT**)
6. Within a few years, the drug was \_\_\_\_\_ available. (**COMMERCE**)
7. As antibiotic use has increased, more bacteria have evolved \_\_\_\_\_ to it. (**RESIST**)
8. An allergist can perform an \_\_\_\_\_ to see if you are truly allergic. (**EVALUATE**)
9. Over 90% of people who think they have a penicillin allergy are \_\_\_\_\_ not allergic. (**ACTUAL**)
10. Because of evolution, penicillin has become \_\_\_\_\_ to some bacteria. (**EFFECT**)