



G D GOENKA PUBLIC SCHOOL

Subject: Ev.Sc./ 5TH

Aspect: Supporting Content

Thursday 16th September 2021)

Lesson no 19. Inventions and Discoveries

Learning Objective: Students will learn about the Antibiotics.

Skills: Development of curiosity and imagination.

Antibiotics

Antibiotics are medicines that are used to treat as well as prevent bacterial infections. They inhibit the growth and sometimes destroy the microorganisms that cause infections.



Originally antibiotic was obtained naturally from microorganisms.

Later, after the advancement in synthetic methods, the synthetic antibiotic was also developed.

In 1928, Dr. Alexander Fleming discovered the first antibiotic, *penicillin*.

He noticed that a dish containing bacteria was destroyed by the *Penicillium notatum*. (a type of fungi)



Antibiotics are drugs that are used to treat or prevent bacterial infections. They don't work against viral infections like the common cold or the flu.

Antibiotic Resistance

Taking antibiotics too often or for the wrong reasons can change bacteria so much that antibiotics don't work against them. This is called *bacterial resistance or antibiotic resistance*. Some bacteria are now resistant to even the most powerful antibiotics available.

To lower the risk of antibiotic and bacterial resistance and prevent antibiotic overuse:

- Ask your doctor if your child's illness is bacterial or viral. Discuss the risks and benefits of antibiotics. If it's a virus, ask about ways to treat symptoms. Don't pressure your doctor to prescribe antibiotics.
- Let milder illnesses (especially those caused by viruses) run their course. This helps prevent germs from becoming antibiotic-resistant.
- Antibiotics must be taken for the full amount of time prescribed by the doctor. Otherwise, the infection may come back.
- Don't let your child take antibiotics longer than prescribed.
- Do not use leftover antibiotics or save extra antibiotics "for next time."
- Don't give your child antibiotics that were prescribed for another family member or adult.

Homework:

Q 1. What are antibiotics?

Q 2. How was penicillin discovered?