Hemingway Name:

Antibiotics

Antibiotics- Penicillin

- _____ was the first antibiotic to be discovered.
- It was discovered in 1928 by _____, a Scottish scientist working in St Mary's Hospital London.
- Fleming discovered that _____ from a Penicillium fungus had antibacterial properties.
- The antibiotic was named penicillin after the _____
- Antibiotics can be derived from fungi, other microorganisms or can be _____ produced

Why Antibiotics

- Used only to fight _____
- Can be _____ or _____
- Work by
  - attacking the_____of bacteria
  - Prevent bacteria from synthesizing _____
  - _____ DNA replication
  - Inhibit protein synthesis
- Will not work on Viruses
  - Why?

Antibiotics resistance

- Bacteria are continually adapting to develop ways of not being killed by antibiotics.
  - This is called _____
    - Resistance develops due to _____ in the bacterial DNA.
- The genes for antibiotic resistance can spread between different bacteria in our bodies through
  - _____
  - _____
- Antibiotic resistant bacteria can be carried by healthy or ill people and can spread to others just as other types of microbes would
  - by shaking _____
  - touching all types of_____ on animals, vegetables or food where bacteria are present.
- Antibiotic resistance arises in our bodies bacteria, or in animals, due to the _____and _____ of antibiotics.
- The more often a person takes antibiotics, the _____ they are to develop antibiotic resistant bacteria in their body.

Preventing Resistance

- To prevent resistance, antibiotics should only be taken as prescribed by a doctor or nurse.
  - The important points to remember are:
    - 1. antibiotics do not need to be taken for colds and flu or most coughs, sore throats, ear infections or sinusitis as these usually get better on their own
    - 2. it is important to take the antibiotic _____ as instructed and complete the course of antibiotics, to decrease the risk of emergence of resistance
    - 3. Antibiotics are personal and prescribed for individuals and for a particular infection. They should not be_____ or taken for a different illnes