NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
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# ANTIBIOTICS (Germ Killing) : Questions

**Answer the following questions on a lined piece of paper in full sentence answers:**

1. **Who discovered penicillin and what year did this discovery take place?**
2. **What is *Penicillium notatum* and to what kingdom does it belong?**
3. **Name three common and very deadly bacterial diseases that were conquered with the aid of penicillin.**

**What are Antibiotics?**

1. **Why are there so many different types of antibiotics that are antibacterial, but there are hardly any antibiotics that are antiviral?**
2. **What are the key differences between a prokaryotic cell and a eukaryotic cell?**
3. **How do bacterial infections damage the body?**

**Kinds Of Antibiotics**

1. **Give the names of four main categories of antibiotics.**
2. **Of the four main categories of antibiotics, which is the most prevalently used group?**
3. **How does this group of antibiotics fight certain bacteria?**
4. **What possible side effects may be experienced when taking penicillin/cephalosporin antibiotics?**
5. **Describe what “Desensitizing” is and when is it used?**
6. **What is the most commonly used “macrolide”?**
7. **How do macrolides fight bacteria?**
8. **Name two bacterial infections that erythromycin will fight, but penicillins/cephalosporins cannot?**
9. **What is a common side effect associated with using macrolides?**
10. **How do sulfa-based antibiotics fight bacteria?**
11. **Give two reasons why sulfas are not as commonly used as they first were?**

**Methods of Taking Antibiotics**

1. **List three different methods for taking antibiotics.**

**Antibiotic Resistance 🡪 “Super Bugs”**

1. **Describe why it is dangerous to be taking an antibiotic and quit taking it before the full course of the prescription? ( Ex. Antibiotic is to be taken for 10 days, but you feel better after 4 days so you quit taking it)**
2. **Can a virus mutate a bacterium?**