Eyes of Nye – Antibiotics Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How many people died of the black plague?
2. What was believed to protect people from disease?
3. How has the rate of death due to infectious disease changed in the last 100 years?
4. What is the primary reason for this change?
5. Which year had the most fatalities due to infectious disease?
6. What was the first mass-produced antibiotic drug?
7. Why has the rate of death due to infectious disease started to increase again?
8. What does an antibiotic do exactly?
9. What happens if a bacterium exposed to antibiotics mutates?
10. Why are there so many resistant bacteria found in hospitals?
11. Antibiotics do not work against what?
12. How many pounds of antibiotics are used in the US each year?
13. What is the estimated rate of unnecessary antibiotic prescriptions written every year?
14. What percentage of antibiotics used are fed to animals?
15. What is the effect of giving animals antibiotics?
16. Do the antibiotics end up in the meat?
17. Where else do the antibiotics end up?
18. How many adults actually wash their hands after using public restrooms?
19. What should people do to minimize the effects of antibiotics resistance?

The Cell Cycle Review Worksheet

1. List the 3 main parts of the cell cycle.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. When do cell go through the cell cycle and/or mitosis?
3. What is the difference between chromatin and chromosomes?
4. The division of the nucleus is called? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. The division of the cytoplasm is called? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. What happens to the cell during interphase?
7. What are the stages of mitosis?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. What is the longest phase of the cell cycle?
9. What is the shortest phase of the cell cycle?
10. During what phase does the nuclear membrane disappear?
11. In what form or shape is the DNA in during interphase?

B. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What happens to the DNA during interphase?
2. What happens to the chromosomes during prophase?

C. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What happens to the chromosomes during metaphase?
2. What happens to the chromosomes during anaphase?
3. What happens to the chromosomes during telophase?
4. What is the difference between cytokinesis in plant and animal cells?
5. What is the difference between a malignant tumor and a benign tumor?
6. Define cancer.
7. What are several causes of cancer?



1. Label the following stages.

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



F. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

