NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part A:** Go to the website below and answer the questions below.

<http://outreach.mcb.harvard.edu/animations/resistance7.swf> or <http://goo.gl/8In3Ae>

1. What do antibiotics do?
2. Why are drug resistant bacteria bad?
3. How is TB spread?
4. How long does someone with TB have to take antibiotics?
5. What kind of infection can you get in a locker room or gym?
6. What are some more common illnesses that are becoming antibiotic resistant?
7. Why is it important to always finish all the drugs that your doctor prescribes to you?

**Part B**: Investigate a variety of types of evidence for evolution.

1. Go to <http://evolution.berkeley.edu/evosite/lines/index.shtml>
2. Click on the links at the top to find the part of the website for your specialty.
3. Find two to three **specific** examples of evidence for evolution.
4. Complete the chart below as you gather information.

|  |  |  |
| --- | --- | --- |
| ***Special areas of interest*** | ***Evidence (drawings or descriptions)*** | ***Why is this information significant?*** |
| **Fossil Evidence** |  |  |
| **Homologies: Anatomy, Comparative Anatomy & Developmental Biology** |  |  |
| **Homologies: Cellular & Molecular Biology** |  |  |

**Part B**: Darwin & Natural Selection

Go to <http://science.discovery.com/interactives/literacy/darwin/darwin.html>

1. Click on “Learn About Natural Selection.”
2. Complete the following table:

|  |  |
| --- | --- |
| **Parts of Natural Selection** | **What does this mean?** |
| Every species exhibits variations. |  |
| Many traits are passed from their parents to their offspring. |  |
| Life in the wild is competitive, and organisms with the most beneficial traits will prosper. This is commonly known as “survival of the fittest.” |  |

1. Click on “Play the Survival Game!” Fill in the table on the following page as you play the game.

**Trial #1**

|  |  |
| --- | --- |
| **Picture of variant** | **Reason for choice/advantages** |
| **1.** |  |
| **2.** |  |
| **3.** |  |

How long did your species survive? \_\_\_\_\_\_\_\_\_