Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

**Practice with Graphs**

**Well-drawn graphs always include:**

1. **Overall Title:** tells the reader what data they will review
2. **Labels for both the x and y axis:** tells what information is found on that axis and includes the units (for example: water (L), or distance walked (m))
3. **Key/Legend:** if more than one variable is graphed, it is best to differentiate them with colors or shapes
4. **Scale:** each axis of the graph should be drawn with even spaces between units

Example:

**Directions:**  Graph the data provided on the graphing space below. Incorporate all of the aspects listed above to make them well-drawn graphs.

|  |  |
| --- | --- |
| **Injuries** | **Occurrence per Year** |
| Heat Burns | 20 |
| Cuts & Scrapes | 80 |
| Spills & Breaks | 180 |
| Fire | 10 |

1. Graph #1:
	1. Determine the best type of graph to use with the following data on common injuries that occur in a high school science laboratory: \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Create the graph.
	3. **Explain** the results of the graph in a sentence or two referencing the data from the types of injuries.
	4. Provide one way to **prevent** the most common type of injury.
2. Graph #2
	1. Determine the best type of graph to use with the following data on bacterial growth: \_\_\_\_\_\_\_\_\_\_
	2. Create the graph.

|  |  |
| --- | --- |
| **Days** | **# of Bacteria** |
| 1 | 28 |
| 2 | 45 |
| 3 | 64 |
| 4 | 100 |
| 5 | 175 |
| 6 | 240 |
| 7 | 350 |
| 8 | 400 |
| 9 | 425 |
| 10 | 500 |



* 1. Describe what happens to the

rate of bacteria growth over time.

* 1. WHY might this be happening?